

Catalog Home

Please Note: A "beta version" of the 2018-2019 online University Catalog will be available by end of workday 9/8/17. Please see the drop-down in the top right corner to select this catalog.

Welcome to the 2017-2018 e-Catalog

The online 2017-2018 University Catalog includes all curricular updates effective for Fall 2017-Summer 2018.

Cal State East Bay's interactive, fully online catalog contains a number of features to assist you, including advanced search options, user-friendly navigation and a personal "My Folder" to store favorite programs and courses. If you are new to our online catalog and would like to learn more, click the  at the top right of any page.

Semester Conversion is underway at Cal State East Bay! This is a multi-year effort to transition the campus from a quarter to a semester calendar. The first term on the semester calendar will be Fall 2018. Current students should see their advisors to get their IAP.

NEWS Flash! Prospective students will apply to the University via CALSTATE Apply beginning June 1, 2017. Click on the icon  or calstate.edu/apply to go directly to CALSTATE Apply now.

Changes on Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the Chancellor or designee of the California State University, or by the President or designee of the campus. It is not possible in a publication of this size to include all of the rules, policies and other information that pertain to students, the institution, and the California State University. More current or complete information may be obtained from the appropriate department, school, or administrative office.

Nothing in this catalog shall be construed as, operate as or have the effect of an abridgment or a limitation of any rights, powers, or privileges of the Board of Trustees of the California State University, the Chancellor of the California State University, or the President of the campus. The Trustees, the Chancellor, and the President are authorized by law to adopt, amend, or repeal rules and policies that apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the campus or the California State University. The relationship of students to the campus and the California State University is one governed by statute, rules, and policy adopted by the Legislature, the Trustees, the Chancellor, the Presidents and their duly authorized designees.

Search Tools

Tips to help you quickly locate and track detail for programs and courses:

- Use the Catalog Search box at the top of the navigation bar on the left
- Select the type of search:
 - Courses
 - Programs
 - Hierarchy Items
 - Other Content
 - Entire Catalog
- Enter a keyword in the "Search Catalog" box
- Using the Whole Word/Phrase is like adding the "quotes" to further hone your search; un-click to broaden your search
- Click to begin your search
- Or use the Advance Search link to further narrow your search utilizing the Course Prefix List

We are always seeking new ways to enhance and improve Cal State East Bay's e-catalog experience and we'd like to hear what you think about our efforts. Please send an email to our catalog editors with any suggestions or ideas you would like to share with us.

Campus Emergencies & Reporting Title IX

Reporting Campus Emergencies

When reporting an on-campus emergency, call the following numbers:

On-campus Emergencies

Police, Fire, Medical:
9-1-1 from any phone

9-1-1 calls from cell phones are routed to Hayward Police Department, then back to University Police Department

Other frequently called numbers are:

<i>On-Campus Non-Emergencies</i>		
	Non-Campus Phone use:	On-Campus or White Phone use:
Police Business:	510.885.3791	x5-3791
Escort Service:	510.885.3791	x5-3791
Crime Prevention Service:	510.885.3791	x5-3791
Lost and Found Property:	510.885.3791	x5-3791
Anonymous Phone Line:	510.885.2444	x5-2444
Parking Services:	510.885.3790	x5-3790
Student Health Services:	510.885.3735	x5-3735
Counseling and Psychological Services:	510.885.3690	x5-3690
University Information:	510.885.3000	x5-3000

Facilities Development & Operations	510.885.4444	x5-4444
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Note: When using a non-campus phone, you must use the "885" prefix instead of "5" in the above extensions; when using a (white) campus phone, simply use the extensions.

AlertMe Emergency Notification System

Update Your Emergency Contact Information

CSU East Bay uses the *AlertMe* emergency notification system to communicate directly with students, faculty and staff if an emergency occurs that affects the campus community. *AlertMe* sends notifications and emergency warnings via phone, text message, and e-mail. The *AlertMe* system is part of CSU East Bay's emergency communications program and was designed to ensure everyone is kept informed and safe. The *AlertMe* System uses the contact information in your *MyCSUEB* profile when contacting you during an emergency. The University encourages everyone to review their contact information in *MyCSUEB* to confirm that the AlertMe contact information is up-to-date.

For questions regarding the Emergency Notification System, please contact Emergency Management Coordinator Sergeant Yolanda Harris at (510)-885-2886 or email yolanda.harris@csueastbay.edu or University Police Administrative Operations Manager Desi Calzada at (510) 885-7524 or email desi.calzada@csueastbay.edu.

During an emergency keeping telephone lines available for people with emergencies is very important. Remember, when an emergency message is sent out do not call University Police unless you have an emergency or an urgent request needing immediate assistance.

Safety of the Campus Community

Reporting a Crime to the University Police or University Employees

Whom to Contact for Complaints, Questions or Concerns

Additional Information Concerning Sexual Violence

Safety of the Campus Community is Primary

The university's primary concern is the safety of its campus community members. The use of alcohol or drugs never makes the victim at fault for gender discrimination, harassment or misconduct; therefore, victims should not be deterred from reporting incidents of sexual misconduct out of a concern that they might be disciplined for related violations of drug, alcohol or other university policies. Except in extreme circumstances, victims of sexual misconduct shall not be subject to discipline for related violations of the Student Conduct Code.

Reporting to University Police or University Employees

REPORTING TO UNIVERSITY OR LOCAL POLICE

If a victim reports to local or University Police about sexual misconduct, violence, the police are required to notify victims that their names will become a matter of public record unless confidentiality is requested. If a victim requests that his/her identity be kept confidential, his/her name will not become a matter of public record and the police will not report the victim's identity to anyone else at the University, including the Title IX Coordinator. University Police will, however, report the facts of the incident itself to the Title IX Coordinator being sure not to reveal to the Title IX Coordinator victim names/identities or compromise their own criminal investigation. The University is required by the federal Clery Act to report certain types of crimes (including certain sex offenses) in statistical reports. However, while the University will report the type of incident in the annual crime statistics report known as the Annual Security Report, victim names/identities will not be revealed.

REPORTING TO THE TITLE IX COORDINATOR AND OTHER UNIVERSITY EMPLOYEES

Most University employees have a duty to report sexual misconduct violence incidents when they are on notice of it. When a victim tells the Title IX Coordinator or another University employee about a sexual misconduct violence incident, the victim has the right to expect the University to take immediate and appropriate steps to investigate what happened and to resolve the matter promptly and equitably. In all cases, the University strongly encourages victims to report sexual misconduct violence directly to the campus Title IX Coordinator.

As detailed above, in the Privileged and Confidential Communications section of this policy, all University employees except physicians, licensed professional counselors, licensed clinical social workers, sexual assault counselors and advocates, must report to the Title IX Coordinator all relevant details about any sexual violence incidents of which they become aware. The University will need to determine what happened - and will need to know the names of the victim(s) and the perpetrator(s), any witnesses, and any other relevant facts, including the date, time and specific location of the incident.

To the extent possible, information reported to the Title IX Coordinator or other University employees will be shared only with individuals responsible for handling the University's response to the incident. The University will protect the privacy of individuals involved in a sexual misconduct violence incident

except as otherwise required by law or University policy. A sexual misconduct violence report may result in the gathering of extremely sensitive information about individuals in the campus community. While such information is considered confidential, University policy regarding access to public records and disclosure of personal information may require disclosure of certain information concerning a report of sexual misconduct violence. In such cases, efforts will be made to redact the records, as appropriate, in order to protect the victim's identity and privacy and the privacy of other involved individuals. Except as detailed in the section on Privileged and Confidential Communications above, no University employee, including the Title IX Coordinator, should disclose the victim's identity to the police without the victim's consent or unless the victim has also reported the incident to the police.

If a victim requests of the Title IX Coordinator or another University employee that his/her identity remain completely confidential, the Title IX Coordinator will explain that the University cannot always honor that request and guarantee complete confidentiality. If a victim wishes to remain confidential or request that no investigation be conducted or disciplinary action taken, the University must weigh that request against the University's obligation to provide a safe, non-discriminatory environment for all students, employees, and third parties, including the victim. Under those circumstances, the Title IX Coordinator will determine whether the victim's request for complete confidentiality and/or no investigation can be honored under the facts and circumstances of the particular case, including whether the University has a legal obligation to report the incident, conduct an investigation or take other appropriate steps. Without information about a victim's identity, the University's ability to meaningfully investigate the incident and pursue disciplinary action against the perpetrator may be severely limited. See Executive Order 1095 for further details around confidential reporting, and other related matters (<http://www.calstate.edu/EO/EO-1095.pdf>).

Additional Resources

- Cal State East Bay's sexual misconduct violence prevention and education statement, which includes facts and myths about sexual misconduct violence:
<http://www.csueastbay.edu/af/departments/risk-management/risk/files/docs/eo-1095-attachment-c.pdf>
- U.S. Department of Education, regional office: Office for Civil Rights, 50 United Nations Plaza San Francisco, CA 94102 (415) 486-5555, TDD (877) 521-2172
- U.S. Department of Education, national office: Office for Civil Rights (800) 872-5327
- Know Your Rights about Title IX <http://www2.ed.gov/about/offices/list/ocr/docs/title-ix-rights-201104.html>
- California Coalition Against Sexual Assault (<http://calcasa.org/>) 1215 K. Street, Suite 1850, Sacramento, CA 95814, (916) 446-2520
- Domestic and Family Violence, Office of Justice Programs, United States Department of Justice
- National Institute of Justice: Intimate Partner Violence, Office of Justice Programs, United States Department of Justice
- National Domestic Violence Hotline: 1-800-799-SAFE (7233)
- Office of Violence against Women, United States Department of Justice
- Centers for Disease Control and Prevention: Intimate Partner Violence
- Defending Childhood, United States Department of Justice
- Local Police:

Oakland Police Department Non-emergency: (510) 777-3333 Emergency: (510) 777-3211 from cell phone

BART Police Non-emergency: 1-877-679-7000

Alameda County Sheriff Emergency Services Dispatch: (510) 667-7721

East Bay Regional Parks Police Department Non-emergency, 24-hour: (510) 881-1833
Emergency: (510) 881-1121 from cell phone

Whom to Contact if You Have Complaints, Questions or Concerns

Title IX requires the university to designate a Title IX Coordinator to monitor and oversee overall Title IX compliance. Your campus Title IX Coordinator is available to explain and discuss your right to file a criminal complaint (for example, in cases of sexual misconduct); the university's complaint process, including the investigation process; how confidentiality is handled; available resources, both on and off campus; and other related matters. *If you are in the midst of an emergency, please call the police immediately by dialing 9-1-1.*

Title IX requires the university to adopt and publish complaint procedures that provide for prompt and equitable resolution of gender discrimination complaints, including sexual harassment and misconduct, as well as provide training, education and preventive measures related to sex discrimination. CSU Executive Order 1097 (<http://www.calstate.edu/EO/EO-1097-rev-10-5-16.pdf>) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made by students against the CSU, a CSU employee, other CSU students or a third party.

Except as provided below under Confidentiality and Sexual Misconduct, Dating Violence, Domestic Violence, and Stalking, **any** University employee who knows or has reason to know of allegations or acts that violate University policy shall promptly inform the Title IX Coordinator. These employees are required to disclose all information including the names of the parties, **even where the person has requested that his/her name remain confidential**. The Title IX Coordinator will determine whether confidentiality is appropriate given the circumstances of each such incident. (See confidential reporting options outlined in this chapter.)

Regardless of whether an alleged victim of gender discrimination ultimately files a complaint, if the campus knows or has reason to know about possible sexual discrimination, harassment or misconduct, it must review the matter to determine if an investigation is warranted. The campus must then take appropriate steps to eliminate any gender discrimination/harassment/misconduct, prevent its recurrence, and remedy its effects.

CSUEB Title IX Coordinator: Terri Labeaux 510-885-4918 title9@csueastbay.edu

25800 Carlos Bee Blvd. Hayward, CA 94542 Monday - Friday 8:30am - 5:00pm

CSUEB Title IX Officer: Nyassa Love 510-885-2743
**Risk Management and Internal Control 25800 Carlos Bee Blvd. SA 4702
Hayward, CA 94542 Monday - Friday 8:30am - 5:00pm**

**CSUEB Deputy Title IX
Coordinators:** Bethany Hobbs-Helmus, Intercollegiate Athletics 510-885-7624;
Rebekah Rhodes, Student Conduct, Rights, and Responsibilities 510-885-
3763;
Shirley Mar, DHR Senior Investigator 510-885-4326

University Police Lieutenant: Omar Miakhail 510-885-3791
25800 Carlos Bee Blvd. Hayward, CA 94542

**Hayward Police Department
Special Victims Unit:** 300 W. Winton Ave. Hayward, CA (510) 293-7034
Non-emergency: (510) 293-7000

Concord Police Department : Non-emergency: (925) 671-3220
Emergency: (925) 671-3333 from cell phone

Additional Information Concerning Sexual Violence

See further information in Cal State East Bay's sexual violence prevention and education statement, Title IX Notice of Nondiscrimination (which includes facts and myths about sexual violence), and Victim's Rights and Options Notice, at <http://www.csueastbay.edu/af/departments/risk-management/risk/files/docs/eo-1095-attachment-c.pdf>

Academic Calendar

Please check the current Class Schedule on *MyCSUEB* for any calendar updates. This calendar is not an employee work calendar.

Note: the final examination period extends through the final weekend of the quarter for classes meeting only on weekends.

Fall Quarter 2017

Sept. 18 Opening of fall quarter; faculty meetings, late advising

Sept. 20 Classes begin

Nov. 10 Veterans Day observed (University closed)

Nov. 11 Last day to submit thesis to Academic Programs and Graduate Studies Office

Nov. 23-24 Thanksgiving recess (University closed)

Dec. 3 Last day of classes

Dec. 4-10 Final examinations

Dec. 10 End of quarter

Dec. 11-Jan. 1 Academic recess

Winter Quarter 2018

Jan. 2 Opening of winter quarter; Classes begin

Jan. 15 Martin Luther King, Jr. Day (University closed)

Feb. 16 Last day to submit thesis to Academic Programs and Graduate Studies Office

Mar. 11 Last day of classes

Mar. 12-18 Final examinations

Mar. 18 End of quarter

Mar. 19-Mar. 25 Academic recess

Spring Quarter 2018

Mar. 26 Opening of spring quarter; Classes begin

Mar. 30 Cesar Chavez Day (University closed)

May 1 Last day to submit thesis to Academic Programs and Graduate Studies Office

May 28 Memorial Day observed (University closed)

June 3 Last day of classes

June 4-10 Final examinations

June 9, 10 Commencement Ceremonies

June 10 End of quarter

June 11-17 Academic recess



Summer Quarter 2018

June 18 Opening of summer quarter; Classes begin

July 4 Independence Day Observed (University closed)

Aug. 3 Last day to submit thesis to Academic Programs and Graduate Studies Office

Aug. 5 Last day of classes

Aug. 6-12 Final examinations

Aug. 12 End of quarter

Sept. 3 Labor Day (University closed)

Aug. 13-19 Academic recess



President's Message

Welcome to California State University, East Bay.

We are proud to be a vibrant and exciting institution serving not only our region but the state and beyond. Cal State East Bay has become a destination campus, a campus of choice.

Our mission is to offer a unique opportunity for access to a quality university education. Our welcoming, exciting, multicultural community will prepare you for success in the diverse global economy. You will enjoy abundant opportunities to work closely and collaboratively with faculty and fellow students and to engage with communities in our region, enriching your classroom experiences.

Students who choose East Bay will find their experience here a truly transformative one. We are regionally focused and nationally recognized. Our outstanding faculty and staff are dedicated to student success. In your journey to acquire the skills and knowledge you need, you will find that the many opportunities for faculty and community interaction will prepare you to take your place in our complex technological and global society.

Within this catalog there is an inspiring breadth of offerings. We offer more than 80 degrees at the bachelor's and master's level each year, as well as 30 credential and certificate programs. We also offer a doctoral program in education with an emphasis in educational leadership. As a regional university, Cal State East Bay has campuses in Hayward and Concord, operates a professional development center in downtown Oakland, and offers classes and degree programs online. These options give you a choice of learning communities, convenient locations, and academic programs, each designed to meet your needs.

Our extraordinary faculty integrate scholarship, instruction, and service learning in support of our shared strategic commitments and Institutional Learning Outcomes. Students have unique opportunities to learn and grow through participation in research, project-based learning, artistic and creative efforts, and a growing number of service learning projects. By engaging with the community, you can truly make a difference through internships, cooperative learning programs, and other initiatives that offer real-life experiential learning while assisting our communities.

The catalog is the official guide to your academic program. It contains essential information regarding Cal State East Bay's policies and procedures, and its contents will assist you in making the most of your experience here. Familiarize yourself with its contents and learn how the campus functions. It will become an important tool to assist you in achieving your professional aspirations.

Sincerely,

Leroy M. Morishita
President
California State University, East Bay

University Administration

Office of the President

Academic Affairs

College Deans, University Library, Department Chairs, and Program Directors

Academic Senate

Administration and Finance

Student Affairs

University Advancement

Cal State East Bay Educational Foundation Board

University Administration and Professional Staff

Office of the President

President, Leroy M. Morishita

- Special Assistant to the President: Mary Barnum

Chief of Staff: Derek J. Aitken

- Executive Assistant to the Chief of Staff: Andrea Lum
- Executive Office Manager: Rebecca Olivera
- Associate Director, Government and Community Relations: Satinder S. Malhi

Interim Chief Information Officer: Phoebe Kwan

- Information Technology Services
 - Associate CIO : Matt Collins
 - Information Security Officer (ISO): Thomas Dixon
 - Director, Academic Technology & Support Services: Eric Neumann
 - Director, Data Warehouse: Liliana Chou
 - Director, System & Infrastructure Engineering: Gene Lim
 - Director, Service Quality: Twinki Mistry
 - Director, Application Management Services: David Corral

- Supervisor, Audio Visual/Media & Classroom Technology Supervisor: Jacob Cambra
- Supervisor, Web Services: Dan Legate

University Diversity Officer: Dianne Rush Woods

Academic Affairs

Provost and Vice President, Academic Affairs: Edward S. Inch

- Special Assistant to the Provost: Gina Traversa
- Senior Budget Analyst: Linda Li
- Director, Sustainability Initiatives: Jillian Buckholz
- Associate Provost: Linda S. Dobb
 - Director, Faculty Development: Jessica Weiss
 - Director, Center for Community Engagement: Mary D'Alleva
 - Senior Director, Online Campus: Roger Wen
 - Director, Institutional Research and Effectiveness: James Hershey
 - Team Leader, Institutional Research: David Garcia
- Associate Vice President, Academic Programs and Graduate Studies, Interim: Donna Wiley
 - Manager, Educational Effectiveness Research: Fanny PF Yeung
 - Articulation Officer: Kyle Burch
 - University Curriculum Coordinator/Catalog and Curriculum Specialist: Sarah Aubert
 - University Curriculum Analyst: Sandra Claflin
 - Instructional Design Specialist: Julie Stein
 - Testing Specialist: Meena Sharma
 - Presidential Appointee to the Grade Appeal and Academic Grievance Committee: Erica Wildy
- Dean of Undergraduate Studies: Maureen Scharberg
 - Director, General Education; Chair, General Studies: Caron Inouye
 - Advisor/Coordinator, General Education Program: Linda Beebe
 - Manager, Peer Mentor Services: Valerie Machacek
 - Director, Academic Advising and Career Education: Lawrence Bliss
 - Director, University Honors Program: Bridget Ford
- Associate Vice President, University Extension: Brian Cook
 - Director, Continuing Education Programs: Kate White
 - Director, Special Sessions Programs: Balvinder Kumar
 - Director, Marketing: Dan Bellone
 - Executive Director, International Programs: Raymond P. Wallace
 - Director, Center for International Education: Kelly Moran
 - Director, American Language Programs: Thomas Tyner
 - Executive Director, Concord Campus: Robert Phelps
 - Operations Coordinator: Cecilia Zefeldt
 - Manager, Oakland Center: Kevin Kinney
- Associate Vice President, Research and Professional Development, Interim: Jeffery Seitz

College Deans, University Library, Department Chairs, and Program Directors

College of Letters, Arts, and Social Sciences

- Dean: Kathleen Rountree
 - Special Assistant to the Dean: Rosalinda Romero
- Associate Dean: Rafael Hernandez
- Associate Dean: Dennis Chester
 - Assistant to the Associate Deans: Elizabeth Graw
- Chair, Department of Anthropology, Geography and Environmental Studies: David Larson
- Chair, Department of Communicative Sciences and Disorders, Interim: Shubha Kashinath
- Chair, Department of Criminal Justice Administration: Dawna Komorosky
- Chair, Department of Human Development and Women's Studies: Keri O'Neal
- Chair, Department of Political Science: Kim Geron
- Chair, Department of Public Affairs and Administration: Jay Umeh
- Chair, Department of Social Work, Interim: Holly Vugia
- Chair, Department of Sociology and Social Services: Carl Stempel
- Director, International Studies Program, Interim: Andrew Wong

School of Arts and Media (SAM); Director: Thomas C. Hird

- Chair, Department of Art: Gwyan Rhabyt
- Chair, Department of Communication: Mary Cardaras
- Chair, Department of Music: Buddy O. James
- Chair, Department of Theatre and Dance, Interim: Darryl Jones
- Director, Multimedia Graduate Program, Interim: Gwyan Rhabyt

School of Global Humanities and Cultural Studies; Director: Vacant

- Chair, Department of English: Sarah Nielsen
- Chair, Department of Ethnic Studies: Carlos Salomon
- Chair, Department of History: Linda Ivey
- Chair, Department of Modern Languages and Literatures: Meiling Wu
- Chair, Department of Philosophy: Christopher Moreman
- Director, Liberal Studies Program, Interim: Jiansheng Guo

College of Business and Economics

- Dean, Interim: Xinjian Lu
 - Human Resources Coordinator: Wanda Davenport
- Associate Dean, Interim: Eric Fricke
- Director, Undergraduate Programs, Interim: Eric Fricke
- Director, Graduate Programs: C. Joanna Lee
- Chair, Department of Accounting and Finance: Nancy Mangold

- Chair, Department of Economics: Jed DeVaro
- Chair, Department of Management, Interim: Vishwanath Hegde
- Chair, Department of Marketing: C. Joanna Lee

College of Education and Allied Studies

- Dean: Carolyn Nelson
 - Assistant to the Dean: June Laherran
- Associate Dean: Patricia Irvine
- Chair, Department of Educational Leadership: Peg Winkelman
- Chair, Department of Educational Psychology: John M. Davis
- Chair, Department of Kinesiology: Paul Carpenter
- Chair, Department of Hospitality, Recreation and Tourism: Christopher Chamberlain
- Chair, Department of Teacher Education: Eric Engdahl

College of Science

- Dean: Jason Singley
 - Administrative Assistant to the Dean: Mariza Sobejana
- Associate Dean, Interim: Danika LeDuc
- Chair, Department of Biological Sciences: Don Gailey
- Chair, Department of Chemistry and Biochemistry: Ann McPartland
- Chair, Department of Computer Science: Matt Johnson
- Chair, Department of Earth and Environmental Sciences: Jean Moran
- Chair, Department of Mathematics: Julie Glass
- Chair, Department of Nursing and Health Sciences: Lynn Van Hofwegen
- Chair, Department of Physics: Erik Helgren
- Chair, Department of Psychology: David Fencsik
- Chair, Department of Statistics and Biostatistics: Mitchell R. Watnik

School of Engineering. Chair: Saeid Motavalli

University Libraries

- Dean: John Wenzler
- Coordinator, Instructional Services: Thomas Bickley
- Coordinator, Research Services: TBA
- Coordinator, Information Literacy Services: Diana Wakimoto
- Chair, Library Faculty: Kyzyl Fenno-Smith

Student Center for Academic Achievement

- Director: Jen Nguyen

Academic Senate

Chair, Academic Senate: Mark Karplus

- Academic Senate Coordinator: Sophie Rollins

Administration and Finance

Vice President, Administration and Finance/CFO: Debbie Chaw

- Associate Vice President, Facilities Development and Operations: Jim Zavagno
- Associate Vice President, Financial Services: Darrell Haydon
- Associate Vice President, Human Resources and Payroll Services: André Johnson
- Associate Vice President, Risk Management and Internal Control: Nyassa Love
- Assistant Vice President, Enrollment Management Systems: Glen Perry
- Chief, University Police Department: Sheryl Boykins
- Director, Administrative Processes: Veronica Salvador
- Executive Assistant to the Vice President: Carmen Rusca

Student Affairs

Vice President, Student Affairs: Julie Wong

- Associate Vice President, Campus Life: Martin Castillo
 - Dining Manager, Aramark: Debbie Meyer
 - Executive Director, Associated Students Incorporated: Erik Pinlac
 - Coordinator, Diversity & Inclusion Student Center: Jessika Murphy
 - Director, Parking and Transportation Services: Derrick Lobo
 - Interim Director, Student Housing & Residence Life: Mark Almeida
 - Director, Student Life and Leadership: Marguerite Hinrichs
 - Director, University Unions: Vacant
 - Associate Director, Residence Life: Kenrick Ali
- Associate Vice President, Student Support and Development: Andrea Wilson
 - Director, Accessibility Services: Katie Brown
 - Director, Student Conduct, Rights and Responsibilities: Vacant
 - Director, Recreation and Wellness Services: Jennifer Luna
 - Director, Student Health and Counseling: Vacant
 - Coordinator, Case Management: Alex Baker
- Executive Director, Student Equity and Success: Alison Richardson
 - Coordinator, GANAS Program: Melissa Cervantes
 - Director, EXCEL: Vacant
 - Director, EOP: Vacant
 - Veteran Student Services: Cherie Randolph
 - Coordinator, Renaissance Scholars: Lael Adediji
 - Coordinator, Sankofa Scholars: Vacant
- Associate Vice President, Family and Community Relations: Stan Hébert
 - Executive Director, Transfer Student Programs: Diana Balgas

- Associate Vice President, Enrollment Management: Vacant
 - University Registrar: Angela Schneider
 - Executive Director, Admissions: Vacant
 - Executive Director, Financial Aid: Rhonda Johnson
 - Director, Prospective Student Services: Amanda Segura
- Director, Intercollegiate Athletics: Joan McDermott

University Advancement

Interim Vice President, University Advancement: Don Sawyer

- Associate Vice President, Development and Campaign Director: Kathleen Brady
- Interim Associate Vice President, University Communications and Marketing: Jesse Cantley
- Executive Director, Alumni & Constituent Engagement: Richard Watters
- Senior Director, Analytics & Advancement Services: Brandi Gross
- Director, University Advancement Operations & Budget: Fa'aalu Lealaimatafao
- Executive Assistant to the Vice President: May Hernandez

Cal State East Bay Educational Foundation Board

- Jack L. Acosta, Chair
- Marvin A. Remmich, Vice Chair
- Tanya Hauck, President
- Mahla Shaghafi, Secretary
- Debbie Chaw, Treasurer
- Carolyn V. Aver
- Lee Blich
- Richard Carson
- Jennifer Case (Alumni Trustee)
- Patrick Devine
- Evelyn Dilsaver
- Bette Felton
- Alan Gould
- Tessie Guillermo
- James Hannan
- Howard Hyman
- Dr. Narinder Singh Kapany
- Dr. Derek Jackson Kimball (Faculty Trustee)
- James Klescewski
- David Lopez (Student Trustee)
- Kumar Malavalli
- Louis Miramontes

- Leroy M. Morishita, Ed.D.
- Carolyn Nelson
- Janet L. Owen
- Micky S. Randhawa
- Richard Sherratt
- James H. Songey

About the CSU

Welcome to the California State University (CSU) - the world's largest comprehensive higher education system in the nation with 23 unique campuses serving more than 474,000 students with 49,000 employees statewide. Each year, the University awards more than 100,000 degrees. CSU graduates now total more than 3 million strong, and are serving as leaders in the industries that drive California's economy, including business, agriculture, entertainment, engineering, teaching, hospitality and healthcare. Learn more at www.calstate.edu.

MORE THAN 50-YEAR TRADITION OF EXCELLENCE

Since 1961, the CSU has provided an affordable, accessible, and high-quality education to 3 million graduates around the state of California. While each campus is unique based on its curricular specialties, location and campus culture, every CSU is distinguished for the quality of its educational programs. All campuses are fully accredited, provide a high-quality broad liberal educational program and offer opportunities for students to engage in campus life through the Associated Students, Inc., clubs and service learning. Through leading-edge programs, superior teaching and extensive workforce training opportunities, CSU students graduate with the critical thinking skills, industry knowledge and hands-on experience necessary for employment and career advancement.

CSU Historical Milestones

Governance

Office of the Chancellor

Board of Trustees

CSU Campuses

International Programs of the CSU

CSU Facts

- CSU faculty attract nearly \$570 million annually in research and education grants, and contracts by federal, state and regional agencies.
- Today, one of every 20 Americans with a college degree is a CSU graduate.
- One in every 10 employees in California is a CSU alumnus.

- The CSU awards 45 percent of the bachelor's degrees earned in California.
- Almost half of all the nurses in the state earn their degrees from the CSU.
- The CSU awards 95 percent of the hospitality/tourism degrees in the state.
- Nearly half of all of the state's engineers earn their degrees from the CSU.
- The CSU is the leading provider of teacher preparation programs in the state.
- The CSU offers more than 115 fully online and 96 hybrid degree programs and concentrations.
- The CSU offers 3,250 online courses to provide more educational options to students who may prefer an online format to a traditional classroom setting.
- The CSU's growing online concurrent enrollment program gives students the ability to enroll in courses offered by other campuses in the CSU system.
- Over the past four years, the CSU has issued nearly 50,000 professional development certificates in education, health services, business and technology, leisure and hospitality, manufacturing, international trade and many other industries.
- Nearly half of the CSU's 474,000 students are engaged in some type of community service, totaling 32 million hours of service annually.
- More than 13,000 students participate in STEM (science, technology engineering and mathematics) service-learning courses.
- For every \$1 that the state invests in the CSU, the University generates \$5.43 for California's Economy.

CSU Historical Milestones

The individual California State Colleges were established as a system with a Board of Trustees and a Chancellor in 1960 by the Donahoe Higher Education Act. In 1972, the system was designated as the California State University and Colleges, and in 1982 the system became the California State University (CSU). Today, the CSU is comprised of 23 campuses, including comprehensive and polytechnic universities and, since July 1995, the California Maritime Academy, a specialized campus.

The oldest campus-San José State University-was founded in 1857 and became the first institution of public higher education in California. The newest-CSU Channel Islands-opened in fall 2002, with freshmen arriving in fall 2003.

In 1963, the State Academic Senate was established to act as the official voice of CSU faculty in systemwide matters. Also, the California State College Student Presidents Association-which was later renamed the California State Students Association-was founded to represent each campus student association on issues affecting students.

Through its many decades of existence, the CSU has continued to adapt to address societal changes, student needs and workforce trends. While the CSU's core mission has always focused on providing high-quality, affordable bachelor's and master's degree programs, over time the university has added a wide range of services and programs to support student success - from adding health centers and special programs for veterans to building student residential facilities to provide a comprehensive educational experience.

To improve degree completion and accommodate students working full- or part-time, the educational paradigm expanded to give students the ability to complete upper-division and graduate requirements through part-time, late afternoon, and evening study. The university also expanded its programs to include a variety of teaching and school service credential programs, specially designed for working professionals.

The CSU marked another significant educational milestone when it broadened its degree offerings to include doctoral degrees. The CSU independently offers educational doctorate (Ed.D.), Doctor of Physical Therapy (DPT), and Doctor of Nursing Practice (DNP) degree programs. A limited number of other doctoral degrees are offered jointly with the University of California and private institutions in California.

In 2010, in an effort to accommodate community college transfer students, the university, in concert with the California Community Colleges, launched the Associate Degree for Transfer, which guarantees transfer students admission to the CSU with junior status.

Always adapting to changes in technology and societal trends to support student learning and degree completion, the CSU initiated another milestone in 2013, when it launched Cal State Online, a systemwide collection of services that support the delivery of fully online programs from campuses. Now, full-time students also have access to fully online courses offered at other CSU campuses.

By providing an accessible, hands-on education that prepares graduates for career success, the CSU has created a network of alumni that is so extensive and renowned that it spans across the globe. In 2014-15, the CSU celebrated The Class of 3 Million, the year-round campaign celebrating the 3 million alumni from all of CSU's campuses, including the Class of 2015.

The CSU strives to continually developing innovative programs, services and opportunities that will give students the tools they need to meet their full potential. With 23 campuses, 474,000 students and 49,000 faculty and staff, the CSU is committed to providing a quality higher education that prepare students to become leaders in the changing workforce.

Governance

The Board of Trustees, most of who are appointed by the governor and serve with faculty and student representatives, govern the system. The CSU Chancellor is the chief executive officer, reporting to the Board. The campus presidents serve as the campus-level chief executive officers. The Trustees, Chancellor and Presidents develop systemwide educational policy. The Presidents, in consultation with the Academic Senate and other campus stakeholder groups, render and implement local policy decisions.

Office of the Chancellor

The California State University
401 Golden Shore
Long Beach, California 90802-4210

(562) 951-4000

Dr. Timothy P. White - Chancellor - CSU System

Mr. Steve Relyea - Executive Vice Chancellor and Chief Financial Officer

Dr. Loren J. Blanchard - Executive Vice Chancellor, Academic and Student Affairs

Mr. Framroze Virjee - Executive Vice Chancellor, General Counsel

Mr. Garrett P. Ashley - Vice Chancellor, University Relations and Advancement

Mr. Andrew Jones - Interim Vice Chancellor, Human Resources

Mr. Larry Mandel - Vice Chancellor and Chief University Auditor

Board of Trustees

Ex Officio Trustees

The Honorable Edmund G. Brown, Jr., Governor of California

The Honorable Gavin Newsom, Lieutenant Governor of California

The Honorable Anthony Rendon, Speaker of the Assembly

The Honorable Tom Torlakson, State Superintendent of Public Instruction

Dr. Timothy P. White, Chancellor of The California State University

Officers of the Trustees

The Honorable Edmund G. Brown, Jr. - President

Rebecca D. Eisen - Chair

Framroze Virjee - Secretary

Steve Relyea - Treasurer

Appointed Trustees

Appointments are for a term of eight years, except student, alumni, and faculty trustees whose terms are for two years. Terms expire in the year in parentheses. Names are listed alphabetically.

Silas Abrego (2021)

Jane W. Carney (2022)

Adam Day (2023)

Rebecca D. Eisen (2018)

Douglas Faigin (2017)

Debra S. Farar (2022)

Jean P. Firstenberg (2018)

Lillian Kimbell (2024)

Thelma Melendez de Santa Ana (2017)

Hugo N. Morales (2020)

John Nilon (2018)

J. Lawrence Norton (2019)

Jorge Reyes Salinas (2018)

Lateefah Simon (2019)

Steven Stepanek (2017)

Peter J. Taylor (2021)

Maggie White (2017)

Correspondence with Trustees should be sent to: c/o Trustees Secretariat, The California State University, 401 Golden Shore, Long Beach, California 90802-4210.

CSU Campuses

See campus locations via map; click link for each campus website:

- California State University, Bakersfield (S)
- California State University Channel Islands (S)
- California State University, Chico (S)
- California State University, Dominguez Hills (S)
- California State University, East Bay (Q)
- California State University, Fresno (S)
- California State University, Fullerton (S)

S - Semester System

Q - Quarter System

- Humboldt State University (S)
- California State University, Long Beach (S)
- California State University, Los Angeles (S)
- California State University Maritime Academy (S)
- California State University, Monterey Bay (S)
- California State University, Northridge (S)
- California State Polytechnic University, Pomona (Q)
- California State University, Sacramento (S)
- California State University, San Bernardino (Q)
- San Diego State University (S)
- San Francisco State University (S)
- San José State University (S)
- California Polytechnic State University, San Luis Obispo (Q)
- California State University San Marcos (S)
- Sonoma State University (S)
- California State University, Stanislaus (S)

(2017) Campus Presidents

International Programs of the CSU

Developing intercultural communication skills and international understanding among its students is a vital mission of The California State University. Since its inception in 1963, the CSU International Programs (CSU IP) has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. More than 20,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or study center abroad. CSU IP serves the needs of students in over 100 designated academic majors. Affiliated with more than 50 recognized universities and institutions of higher education in 18 countries, CSU IP also offers a wide selection of study abroad destinations and learning environments.

- Australia - Griffith University, Macquarie University, Queensland University of Technology, University of Queensland, Western Sydney University, Victoria University
- Canada - Concordia University
- Chile - Pontificia Universidad Católica de Chile
- China - Peking University (Beijing)
- Denmark - Danish Institute for Study Abroad
- France - Institut Catholique de Paris, Institut Supérieur d'Electronique de Paris, Université d'Aix-Marseille (Aix-en-Provence), Université de Cergy-Pontoise, Universités de Paris I, III, IV, VI, VII, VIII, X, XI, XII, XIII, Université Paris-Est Marne-la-Vallée, Université d'Evry Val d'Essonne, Université de Versailles Saint-Quentin-en-Yvelines

- Germany - University of Tübingen and a number of institutions of higher education in the Federal state of Baden-Württemberg
- Ghana - University of Ghana
- Israel - University of Haifa
- Italy - CSU Florence Study Center, Accademia di Belle Arti Firenze
- Japan - Waseda University, University of Tsukuba
- Mexico - Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro
- South Africa - Nelson Mandela Metropolitan University
- South Korea - Yonsei University
- Spain - Universidad Complutense de Madrid, Universidad de Granada, Universidad de Jaén
- Sweden - Uppsala University
- Taiwan - National Taiwan University
- United Kingdom - University of Bradford, University of Bristol, University of Hull, Kingston University, Swansea University

Students participating in CSU IP pay CSU tuition and program fees, and are responsible for airfare, accommodations, meals and other personal expenses. Financial aid, with the exception of Federal Work-Study, is available to qualified students and limited scholarship opportunities are also available. Most programs require students to have division standing at a CSU upper-campus by the time of departure; several programs are open to sophomores or Graduate students. California Community College transfer students are eligible to apply (to select programs) directly from their community colleges. Students must possess a current cumulative grade point average of 2.75 or 3.0, depending on the program, and must fulfill all coursework prerequisites. Additional program information and application instructions can be found on our website at www.calstatele.edu/ip.

Cal State East Bay at a Glance

California State University, East Bay is a comprehensive four-year institution that enrolls more than 13,000 students and offers undergraduate and graduate programs in a wide range of disciplines. Cal State East Bay's spacious 342-acre Hayward campus, situated in the rolling hills above San Francisco Bay, offers students and visitors panoramic views of the bay and bridges, as well as the vibrant cities and open space that surround the campus. With its wide expanses of lawns, tree-lined walkways, fountains, and beds of native California plants, the campus is one of the most beautiful in the CSU system. The University is recognized as a "Best in the West" college and a Best Business School by the Princeton Review and as a "top-tier" masters-granting university by U.S. News & World Report in its "America's Best Colleges" guide.

Welcome to Cal State East Bay

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Bay Area's Regional Transit System

Campus Facilities

Museum of Anthropology

Art Galleries

Cultural Activities, Intercollegiate
Athletics and Other Programs

Pioneer Bookstore

Business and Economics Special
Facilities

Science Labs & Facilities

Recreation and Wellness Center (RAW)

University Unions

About Our Campus

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The Concord Campus

The Oakland Center

University Police Department

Office of Prospective Student Services

Housing & Residence Life

Student Health & Counseling Center

Cashiering

Greek Life

Campus Parking & Transportation

Moss Landing Marine Laboratories

University Extension

Technology, Communication, and Media
Support

Cal State East Bay Educational
Foundation

University Mission, Shared Strategic Commitments, and Institutional Learning Outcomes

Shared Strategic Commitments

Cal State East Bay takes pride in its eight Shared Strategic Commitments, which express the university's values and aspirations:

1. Reinforce academic quality through open-minded inquiry, innovative teaching, engaged learning, and distinguished scholarship.
2. Enhance our inclusive campus, responding to the backgrounds and interests of our diverse community and promoting their academic, professional and personal development.
3. Serve students first, by expanding access and enhancing each student's educational experience and prospects for success as a graduate and life-long learner.
4. Foster a vibrant community through enriched student services and student life that support student engagement and learning.
5. Contribute to a sustainable planet through our academic programs, university operations, and individual behavior.
6. Continuously improve our efficiency, transparency, and accountability while practicing mutual respect, responsiveness, and collaboration across the University.
7. Support the civic, cultural, and economic life of all communities in the regions we serve through partnerships that promote education and social responsibility.
8. Demonstrate our continuing record of leadership and innovation in higher education, focused on 21st century skills, including science, technology, engineering, and mathematics (STEM).

Institutional Learning Outcomes

Using competencies developed through general education, their scholarly disciplines and co-curricular activities, graduates of CSUEB will be able to achieve the following outcomes:

- *Thinking and Reasoning*
 - Think critically and creatively and apply analytical and quantitative reasoning to address complex challenges and everyday problems.
- *Communication*

- Communicate ideas, perspectives, and values clearly and persuasively while listening openly to others.
- *Diversity*
 - Apply knowledge of diversity and multicultural competencies to promote equity and social justice in our communities.
- *Collaboration*
 - Work collaboratively and respectfully as members and leaders of diverse teams and communities.
- *Sustainability*
 - Act responsibly and sustainably at local, national, and global levels.
- *Specialized Education*
 - Demonstrate expertise and integration of ideas, methods, theory and practice in a specialized discipline of study.

Assessment for Continuous Improvement

Cal State East Bay is committed to continuous improvement. Students, faculty and staff are asked to participate in learning assessments at the course, program, and university levels. The information used for assessment includes individual student work (assignments, essays, exams, projects, etc.), in addition to surveys and other indirect methods.

In order to assess the overall educational effectiveness of programs and the university, student work at Cal State East Bay is used on an aggregated basis to provide information for program improvement, as well as to demonstrate accountability to various stakeholders, including our students, the general public, and our accrediting agencies.

Students at Cal State East Bay should expect that their academic work may be used for assessment purposes.

Quarter System

Cal State East Bay currently operates on the quarter system. Each quarter (fall, winter, spring, summer) is approximately 11 weeks in length (10 weeks of instruction, plus 1 week of final exams). Enrollment in a quarter after admission to the university constitutes matriculation, including enrollment in all Special Session courses. (Special Session courses are groups of self-support courses which have been approved to confer residence credit, with the exception of Open University courses.) Enrollment in Open University courses, as well as in Continuing Education courses, does not constitute matriculation.

One (1) semester unit is equivalent to one and one-half (1 1/2) quarter units of credit. One (1) quarter unit is equivalent to two-thirds (2/3) of a semester unit.

Semester Conversion 2018

Semester Conversion is underway at CSU East Bay. This is a multi-year effort to transition the campus from a quarter to a semester calendar. The first term on the semester calendar will be **Fall 2018**.

CSUEB is committed to providing information and engaging all of the CSUEB community in the process of conversion. On our website, you will find material about the initiative, including news and announcements; information for CSUEB students, faculty and staff; resources about how other universities have navigated this process; and the timeline for our conversion. There will be frequent updates to the site.

Accreditation

Cal State East Bay is accredited by the Western Association of Schools and Colleges Senior College and University Commission (WSCUC), 985 Atlantic Avenue, Suite 100, Alameda, CA 94501; phone: (510) 748-9001. The Commission is an institutional accrediting agency recognized by the U.S. Department of Education and is periodically reviewed by the Council for Higher Education Accreditation (CHEA).

- The B.A. and M.A. in Music are accredited by the National Association of Schools of Music.
- The master's education program in Speech-Language Pathology is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 2200 Research Boulevard #310, Rockville, Maryland 20850, 800-498-2071 or 301-296-5700.
- The undergraduate and graduate programs in the College of Business and Economics are accredited by the Association to Advance Collegiate Schools of Business (AACSB International).
- All of the university's programs for teaching and services credentials are approved by the California State Commission for Teacher Credentialing.
- The professional preparation programs of the College of Education are accredited by the National Council for Accreditation of Teacher Education.
- The School Psychology credential program has received full approval from the National Association of School Psychologists.
- The B.S. in Chemistry is approved by the American Chemical Society.
- The B.S. in Nursing is accredited by the Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington, DC 20036, (202) 887-6791 and the California State Board of Registered Nursing.
- The B.S. in Industrial Engineering is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.
- The Master of Social Work is accredited by the Council on Social Work Education.
- The Continuing Education certificate program in Paralegal Studies is approved by the American Bar Association (ABA).
- The Continuing Education certificate program in Chemical Dependency is accredited by the California Association of Alcoholism and Drug Abuse Counselors (CAADAC).
- The Continuing Education certificate program in Human Resource Management is approved by the Human Resource Certification Institute (HRCI) for recertification hours.
- The Continuing Education certificate program in Project Management is approved by the Project Management Institute (PMI).

Bay Area Points-of-Interest

In addition to its own facilities, activities, and intramural sports, Cal State East Bay's campuses are close to San Francisco and other Bay Area cities that provide unique cultural opportunities including museums, libraries, art galleries, aquariums, planetariums, theater, sports events, and concerts.

Hiking trails are near both campuses. The extensive Garin and Dry Creek-Pioneer East Bay Regional Parks are located immediately southeast of the Hayward campus. Beautiful Mt. Diablo and the Lime Ridge open space are adjacent to the Concord campus. In addition, proximity to the Pacific Ocean and Sierra Nevada mountains offers recreational diversion as well as excellent laboratories for educational studies.

The main Hayward Campus location is nearby these exciting points-of-interest:

- San Francisco Bay--campus overlooks the Bay and region from the East Bay hills
- Pacific Coast--45 minutes west
- San Francisco, Berkeley, Oakland, Walnut Creek, and Concord--30 to 45 minutes northeast and northwest via BART (Bay Area Rapid Transit) trains and freeways
- Lake Tahoe and Yosemite Valley--four hours northeast and east
- Napa and Sonoma Valleys--one hour north
- Sacramento, the state capital--one and one-half hours northeast
- Santa Cruz beaches and Monterey Peninsula--two hours south
- San Jose and the Silicon Valley--30 to 45 minutes south via freeways

Bay Area's Regional Transit (BART)

Since the humble beginning of a rapid transit idea in 1946, San Francisco Bay Area Rapid Transit Commission, comprised of representatives from each of the nine counties which touch the Bay determined that any transportation plan must be coordinated with the area's total plan for future development. Since no development plan existed, the Commission prepared one itself. The result of their thoroughness is a master plan which did much to bring about coordinated planning in the Bay Area, and which was adopted a decade later by the Association of Bay Area Governments (ABAG).. The Commission's least-cost solution to traffic tie-ups was to recommend forming a five-county rapid transit district, whose mandate would be to build and operate a high-speed rapid rail network linking major commercial centers with suburban sub-centers. For further information us the BART website: <https://www.bart.gov/>

Campus Facilities

C.E. Smith Museum of Anthropology

The Clarence E. Smith Museum of Anthropology was established in 1974 and opened its exhibition gallery in 1979. Chartered as a teaching museum for the instruction of museology in an anthropological context, the Museum is named in honor of the late Professor Clarence Smith of the Department of Anthropology. Professor Smith recognized the advantage of demonstrating tangibly, in art and artifact,

both human diversity and the range of human achievement throughout the world. Efforts are made to represent both traditional cultural forms and their contemporary expressions and influences. In the forefront of the Museum's repertory are exhibits designed to illustrate all aspects of human culture from around the world, features of culture change, and technological as well as biological evolution.

The exhibition galleries of the Museum are located in the southeast corner of the fourth floor of Meiklejohn Hall on the Hayward Hills campus. They are open to the public, Monday through Friday, and by appointment; admission is free. Access to the collections is limited to qualified professionals and students whose scholarly research requires direct examination of the Museum's holdings. Consult with the Museum's collection manager for a current list of artifacts held. The staff and director's office is located on the first floor (1017) of Meiklejohn Hall. Consultations are given by appointment. For information on exhibits and appointments, call the Museum at (510) 885-3104 or (510) 885-3168, Monday through Friday, 8:00 a.m. to 5:00 p.m.

Campus Art Galleries

The Hayward Hills campus enjoys two exhibition spaces which make it possible to mount shows of varying size and significance.

The University Art Gallery

Is 2820 square feet of exhibition space. Located in AE 106, the Gallery has one person shows, group shows and student shows in a variety of media. An adjoining courtyard is available to display outdoor sculpture. Admission to the University Art Gallery is free.

The Student Gallery

Is located in AE 274, is a more intimate space. Throughout the year, students present their works for short exhibitions. The days and hours of these shows vary and are also admission free.

Cultural Activities, Intercollegiate Athletics and Other Programs

Cultural Activities

Art, music, and theatre and dance engage, enrich and vitalize society, and are central of the educational mission of the University. They present a variety of exhibitions and performances throughout the year, showcasing the work of students and faculty, and sometimes staff and outside guests. Details are available from the departments, or at: <http://www.csueastbay.edu/arts>.

See Cal State East Bay's University Calendar for current events.

Intercollegiate Athletics, Instructional, Intramural and Recreational Programs

Cal State East Bay sponsors intercollegiate athletic programs for both men and women through the Department of Intercollegiate Athletics. The university is a member of the NCAA in Division II. Teams compete in the California Collegiate Athletic Association (CCAA). The sports offered include basketball, soccer, cross country, outdoor track and golf for men and women, plus baseball, softball, women's swimming, women's volleyball and women's water polo.

The university encourages you to participate in some form of physical activity. In addition to the program of intercollegiate athletics, opportunities exist for you to participate in instructional, intramural, and recreational programs. The Department of Kinesiology offers for credit instructional programs in sports, games, and exercise. The Department of Hospitality, Recreation and Tourism offers instructional programs in outdoor activities. The Recreational Activities Program, sponsored by the Associated Students, provides competitive and recreational opportunities during fall, winter, spring, and summer quarters.

The university has two swimming pools, two racquetball courts, a martial arts facility, a basketball/multipurpose gymnasium, a dance studio, a soccer stadium, a track, a baseball diamond, a softball diamond, and a multipurpose practice field. Information regarding programs should be obtained from the Department of Kinesiology (885-3061). Groups interested in renting the facilities should see the Office of Facility Reservations and Rentals web site for more information. Student clubs or organizations interested in reserving facilities should contact the office of Student Life (885-3657).

The California State University is committed to providing equal opportunities to men and women CSU students in all campus programs, including intercollegiate athletics. Information concerning athletic opportunities available to male and female students and the financial resources and personnel that Cal State East Bay dedicates to the men's and women's teams may be obtained from the Athletic Director, Department of Intercollegiate Athletics, TR 900, 885-3038.

Pioneer Bookstore

The Pioneer Bookstore's mission is to support the educational endeavor of the University by offering access to course materials for classes, as well as merchandise and services for the convenience of the campus community. The Hayward campus store is located between the Library and the University Union. The Concord campus store is located in the Campus Union.

In addition to your required course materials, your bookstore offers: CSUEB logo clothing and gifts, electronics, nursing supplies and scrubs, lab supplies, educationally-discounted computer software and hardware, computer supplies, school and office supplies, testing materials and study guides, general books, art supplies, Peet's coffee, fresh sandwiches and salads, microwave meals and other snacks. The Hayward store also has a full-service Bank of America ATM.

All course materials and selected merchandise and services can be ordered online for delivery to your

address at a fee, or for campus pickup at no additional charge. The website also posts current hours and general information. Hours and general information are also available at 510-885-3507.

Business and Economics Special Facilities

The College of Business and Economics has Student Success and Service Centers in the Valley Business & Technology Center, VBT 129 (510-885-3323) for undergraduate students and VBT 132 (510-885-2419) for graduate students, providing academic guidance for Business and Economics students. In addition, there are numerous student study commons located throughout the building.

The Acosta Gallery is used for hosting special events and when not in use serves as a gathering place for students.

Science Facilities

The College of Science is housed in a 201,000-square-foot science building which includes many specialized teaching laboratories, general purpose personal computers, and specialized computing facilities.

The Departments of Biological Sciences, Chemistry and Biochemistry, Engineering, Earth and Environmental Sciences, Mathematics and Computer Science, Nursing and Health Sciences, Physics, and Psychology each maintain a number of well-equipped laboratories for undergraduate instruction. Laboratory classes are limited to 24, 20, 16, or 12 students, depending on the discipline. In addition to the normal complement of laboratory equipment, students in the College of Science have access to three modern teaching and research core facilities.

- **College of Science**
 - **BioCore:** Support for cellular and molecular biology teaching and research
 - **Equipment:** Existing: DNA sequencer, real time PCR machine, flow cytometer, fluorescent microscope, HPLC, trace DNA lab, cell culture facility;
 - **Future:** confocal microscope, microarray reader, FACS for cell type analysis, robotics
 - **Supported Activities:** Cell culture and cell sorting, DNA sequencing and typing, gene expression studies, forensic science and ancient DNA work
 - **ChemCore:** Support for qualitative, quantitative and structural analyses of chemicals and biomolecules
 - **Equipment:** Existing: 500MHz multi-nuclear FT-NMR spectrometer, gas chromatographic/mass spectrometer, high performance liquid chromatography apparatus with fluorescence detection, FT-IR and UV/visible/infrared (diode array) spectrophotometers, spectrofluorometer and atomic absorption spectrometer.

- Future: microwave synthesizer, fluorescence spectrophotometer, liquid chromatography/mass spectrophotometer
- Supported Activities: qualitative and quantitative analyses of inorganic and organic molecules including nucleic acids and proteins, structural analyses of organic molecules, analyses of environmental samples including pesticides and heavy metals
- CompCore: Support for high capacity computing and visualization
 - Equipment: 40-core cluster system; large 9-panel display wall; cluster-driven immersive projected display; workstations with modern graphics cards
 - Supported Activities: Faculty and student projects include mathematics visualization, immersive display for panoramic photographs, statistics simulations, surround audio research, graphics rendering algorithms for GPUs.

Biology

Biology Faculty members maintain individual research labs set up with equipment for the research and mentoring of students in the various specialized, research programs. Basic research and teaching in cell and molecular biology takes place in a shared facility, BioCore, which is a 1400 square foot facility set up with major pieces of equipment that facilitate experiments involving cell culture and flow cytometry, DNA sequencing and typing, gene expression studies, forensic science and ancient DNA work. Major instrumentation includes DNA sequencers (CE and next generation), Q-PCR machines, two flow cytometers, fluorescent microscopes, pulse field gel units, pippenpreps, a Bioanalyzer, a trace DNA clean room and a cell culture facility with hoods and incubators. An imaging facility is also maintained in BioCore which includes a wide-field fluorescent microscope with digital camera, and a confocal microscope with 4 lasers lines of excitation and high numerical aperture lenses.

Chemistry and Biochemistry

The Department of Chemistry and Biochemistry houses the ChemCore facility and maintains laboratory instruments and equipment and instruments typical of comparable institutions. The Nuclear Magnetic Resonance (NMR) spectrometer is a 500 MHz instrument that allows structure elucidation of small molecules and biological compounds. Other instruments include several FT-IR spectrophotometers, two gradient capable high performance liquid chromatographs (HPLC), an atomic absorption spectrophotometer (flame, graphite furnace and cold vapor), a fluorescence spectrometer and a capillary gas chromatograph/mass spectrometer (GC/MS). Other specialized equipment includes several gas chromatographs, a molecular imaging system, thermal cyclers, high speed centrifuges, a table top ultracentrifuge, a 96 well plate reader with fluorescence and UV/Vis detection, a plant growth chamber and other incubators, Nanodrop spectrophotometers and Vernier graphing calculators with probes for pH, temperature and voltage measurements. A molecular modeling facility equipped with 24 computers is also available for instruction and research.

Engineering

The Department of Engineering maintains five laboratories:

- Sustainable Construction Materials Lab:

- The newest lab in Engineering, this humidity controlled curing room, houses a cylinder testing machine, a concrete grinder, sieve analysis shaker machines, soils ovens and a concrete mixer.
- Computer Integrated Manufacturing/Quality Testing Lab:
 - Serves as a teaching lab; designed and developed to support various engineering courses with equipment ranging from table-top machine tools, robots, coordinate measuring machine and computer workstations to control this equipment.
- Computer Laboratory:
 - Houses 50 computer workstations equipped with the latest versions of IE and manufacturing software; open to engineering students to work on projects and homework.
- Human Performance Laboratory:
 - Equipped with various types of work measurement hardware and software, a treadmill and a work simulator machine. It also houses two Segway vehicles to study ergonomic design concepts. This laboratory is equipped with multi-media presentation equipment.
- Material Testing Laboratory:
 - Houses an MTS machine, a torsion tester, an engineering microscope, and other measurement equipment. The lab houses a plastics processing equipment that is capable of demonstrating various plastics processes such as injection molding, blow molding and extrusion.

Earth and Environmental Sciences

The Department of Earth and Environmental Sciences is equipped with modern research and field instruments including a laser liquid-water isotope analyzer, vibrating tube densimeters, laser diffraction particle-size analyzer, cathodoluminescence microscope; X-ray diffractometer; petrographic and ore microscopes; ground penetrating radar; 24-channel seismographic system, and a proton magnetometer.

Field equipment includes a portable kitchen and other field supplies and a small power boat with sampling equipment for shallow water studies. Laboratories are equipped for sediment analysis, thin-section preparation, and photomicrography. The department also has large collections of minerals, rocks, fossils, and maps.

Computer Science

Computer science and math students at Cal State East Bay have access to some of the most modern and powerful computer equipment available. The campus provides a network backbone, including connection to the Internet and hundreds of personal computers. The department also has equipment of its own, including a network of Unix workstations and classrooms equipped for computerized demonstrations. Several computer labs on campus offer remote access and assistance with problems. CompCore is an advanced computing facility the department shares with the College of Science. Student and faculty projects can use its 40-core cluster system, large 9-panel display wall, immersive projected display system, and several workstations with modern graphics cards.

Nursing

In the Nursing Skills Lab, nursing students practice in a simulated health care setting under the guidance of the Skills Lab Coordinator. This prepares them to move into local hospitals and community health agencies for their clinical patient/client experience.

Physics

Students in Physics have access to world-class experimental facilities for undergraduate research and research training. One research laboratory is dedicated to thin film material science; i.e. organic polymer photovoltaics and metamaterials. Facilities include a thermal evaporator for preparation and characterization tools for electronic transport and THz spectroscopy. Another research laboratory, funded by grants from the National Science Foundation, is dedicated to tests of fundamental physical laws using atomic spectroscopy with state-of-the-art laser systems, magnetic shields, magnetic and electric field controls, and data acquisition systems. Research training facilities include an atom trapping and cooling laboratory, an electron-spin and nuclear magnetic resonance system, solar spectroscopy setup, and high-resolution grating spectrometers.

Psychology

The Department of Psychology maintains laboratories and equipment for conducting student research in development, personality, social psychology, industrial psychology, physiological psychology, perception, conditioning, and cognition. The Psychology department also maintains a computer lab for use by students and faculty.

A computer lab, funded originally by the National Science Foundation, is equipped primarily for instruction of Statistics majors and minors, but is available for use by students in other areas as well. The laboratory has 36 personal computers networked to servers with professional statistical software and data sets. Both hardware and software are state-of-the-art. Applied and theoretical statistics classes use the lab for demonstrations of statistical computing and for class projects in which students learn practical data analytic skills that aid them in the transition from school to work.

Some rooms in the science building have also been set aside to function as computer centers. The Science Computer Lab is a 50 station lab with all the software needed by science students to do their homework. The flex classroom, Science South 149, is wired for students to bring laptops to use in the classroom.

Recreation and Wellness Center (RAW)

Co-managed by Campus Recreation and University Unions (CRUU), and Student Health and Counseling Services (SHCS) Health Promotion department, the Recreation and Wellness Center (RAW) provides facilities, programs and services to support the CSUEB campus community in their pursuit and maintenance of a healthy and balanced lifestyle. RAW facilities include a two-court gymnasium, two-story fitness center, wellness resource center and lounge, relaxation room, locker rooms, equipment rental, a track and two group fitness studios. Designed to the L.E.E.D. (Leadership in Energy and

Environmental Design) Gold certification standards, RAW's facility design was recognized with a Facility of Merit Award from Athletic Business in 2011.

RAW membership is open to all students, faculty, staff and alumni. Students that pay the UU Rec Fee as part of their tuition fees are eligible for a complimentary membership. Membership includes access to all the RAW facilities as well as a series of programs and services which include nutrition and fitness consultations (students only), fitness equipment orientations, day use lockers, bath and fitness towel service, and specialized sports and fitness equipment. Additional no or low-cost programs available include fitness classes and workshops, personal training, intramurals sports leagues and tournaments, equipment rental, and massage.

RAW is managed and operated by CRUU and SHCS. SHCS offers internships through the Peer Advocates for Wellness (PAW) program. CRUU employs over 100 students in various RAW facility and program operations positions.

The University Unions

The University Union is the "living room" for Cal State East Bay providing services, facilities, and programs to meet the various social, recreational, and cultural needs of the students, faculty, staff, and community.

The University Union has a great deal to offer. Housed within the Union buildings are the Associated Students, Incorporated and Student Government Offices, Customer Service and Reservation center, Student Life and Leadership Programs office, The Diversity and Inclusion Student Center, a PHiL Station, an ATM machine, food services, recreational facilities, game rooms, and lounge areas. With conveniently located televisions, the Union is the ideal location for catching up on current events, watching a major sporting event, or enjoying music videos in a relaxing atmosphere.

Conference spaces are also available for use by student organizations, academic and administrative departments, CSU East Bay affiliated groups, and off campus groups. The University Union provides an ideal setting for club and organization meetings, lectures, receptions, banquets, and special events.

As the "living room" of the campus, the University Union provides the Cal State East Bay campus with a community center for students, faculty, staff and campus guests.

We look forward to serving you in the University Union!

- **Reservation Procedures**
 - All groups may request to make reservations online at <https://adhayweb13.csueastbay.edu/events/uu-reservation/intex.php>.
 - Events occurring outside of normal business hours are subject to a fee. No organization or department may reserve space on behalf of another group. Groups may not sell, sublease, or transfer their reservation to another group. In order to avoid operating and personnel charges, reservations should be scheduled during standard hours of operation..

- All groups receive the following complimentary services at no charge:
 - Room rental standard set-up
 - One head table and one registration table
 - Tables for food and beverages (no table skirt)
- Organizations that have access to the University Union facilities include university-recognized student organizations, academic and administrative departments, Cal State East Bay-affiliated groups, and off-campus groups.
- All recognized Cal State East Bay student organizations may make tentative reservations directly, with confirmation pending approval obtained through the Student Life and Leadership Programs Office. Academic/administrative/service departments can make reservations directly. The Union facilities shall not be used for regular academic classes. Deviation from this policy requires approval from the Director of Campus Recreation and University Unions.
- Groups not directly affiliated with the university should make reservations directly with the University Union Reservations Desk and will be required to pay all charges and fees associated with their planned event prior to the event.
- **Room Rental Fees**
 - Rental fees will be levied according to the University Union room rental fee structure. If special services (i.e., technical support, special equipment) are requested, the University Union will levy the charge appropriate for the service requested. Set-up fees may be assessed for use of the University Union when the sponsor requires set-ups beyond those normally provided.
- **A-V Equipment**
 - Audio-visual equipment is available upon request at the time of reservation. LCD projectors, screens, P.A. systems, and laptops are available.
- **Cancellations**
 - The policy of notifying the University Union Reservations office of cancellations enables the Union to meet the growing demand for space. Organizations are encouraged to make reservations as early as possible. Groups that frequently violate the cancellation policy will not have the opportunity to continue reserving space for the duration of the current quarter.
- **Banners/Posters**
 - Recognized Student Organizations, Associated Students, and university departments may place banners announcing events on one of four (4) designated banner spaces on the South balcony. Banner space is available for a maximum of one week on a first-come, first-served basis and must be reserved through the University Union Reservations Desk at 885-7245.

Title 5, California Administrative Code, Subchapter 5, Article 9, Sections 42350-42353 specifies certain restrictions on the posting and distribution of printed materials on campuses of the California State University. Campus Presidents and/or designees are granted authority for implementing and for issuing directives pertaining to such regulations. The policy for posting can be found at: Posting Policy.

NOTE: See Errata Chapter in this catalog concerning Executive Order 1108 - Policy on Systemwide Smoke and Tobacco Free Environment

About the Hayward Campus

Our outstanding instructional facilities include over 150 classrooms and teaching laboratories and over 200 specialized instruction rooms. Discipline-specific computer labs and general access labs with PCs and Apple computers are available for student use. The University Library, with its rich collections and online catalog, features individual and group study areas, as well as an innovative Learning Commons offering expert information technology support, access to extensive information resources, library reference services, and information literacy instruction.

Food services, lounges, and meeting rooms are available through the University Union, a popular student gathering place. It also offers specialized services such as a credit union and an automatic teller machine. A major renovation of the University Union includes new retail food outlets, and space for growing student social and academic activities. The Student Recreation and Wellness Center houses a gymnasium, an elevated running track, two fitness centers and two multi-purpose exercise studios, locker rooms, and associated support space to promote nutrition, health and wellness.

Other campus facilities include a 500-seat theater, a television studio, a bookstore, a student health center, a 100,000 square foot student services and administration building, and a 67,000 square foot student and faculty support center. Pioneer Heights, the university's on-campus student apartment complex, offers housing for more than 1,300 residents, as well as a full service Dining Commons.

The Hayward campus recreational facilities include a 20,000 square foot main gymnasium, a dance studio, swimming pools, racquetball/tennis/volleyball courts, several playing fields and a par course. The 54,000 square foot Recreation and Wellness center, funded by student fees, opened in 2010, with a multi-court gym for basketball, volleyball, or badminton; an elevated running track; two fitness centers with free weights and machines; multipurpose fitness and activity rooms for aerobics, martial arts and dancing; locker rooms; and a juice bar in the lobby.

About the Concord Campus

The Concord Campus is a branch campus of Cal State East Bay located in Concord, and near Clayton, Walnut Creek, Pleasant Hill, Pittsburg and Antioch in beautiful Contra Costa County. The 386-acre campus includes over 300 acres of open space, community sports fields and views of Mt. Diablo and the Sacramento Delta, and is one of the largest branch campuses within the CSU system. Located at 4700 Ygnacio Valley Road, the campus is uniquely positioned to serve the educational needs of county residents. Though established temporarily in Pleasant Hill in 1981, the Concord Campus, in 1992, was the first CSU branch campus with a permanent location, and has provided quality education and services for more than two decades - celebrating its 25th anniversary in 2017. Many residents have benefited from Cal State East Bay's educational presence and have enjoyed the small class size and intimate educational experience that the Concord Campus provides.

Degree Programs

Functioning as an upper-division and post baccalaureate campus in a thriving, suburban region, the Concord Campus offers varied curriculum taught by Cal State East Bay faculty and provides quality educational programs while making use of modern educational technologies to deliver state-of-the-art programs. In Fall 2008, the Concord Campus began providing lower-division courses for Pre-nursing students only.

Academic degree and credential programs currently offered at the Concord Campus are:

- **Undergraduate Fields of Study**
 - See the Concord Campus website to see the most current majors and programs available. Some courses within the following majors are available at the Concord Campus. Degree completion for these majors may require students to complete coursework online or at the Hayward Campus:
 - Criminal Justice
 - Health Sciences
 - Human Development
 - History
 - English
 - Undergraduate degree completion programs that can be completed entirely at Concord include:
 - Business
 - Liberal Studies
 - Nursing
 - Psychology
 - Pre-Health Professions Program for Freshman (Cohort Program)
- **Certificates**
 - Multiple Subject
 - Single Subject
 - Paralegal Program Certificate
 - Pre-Professional Health Academic Program
- **Graduate**
 - Masters in Educational Leadership

Application and/or registration through either the Hayward or Concord Campus qualifies a student to enroll in courses at both sites. Academic expectations and standards, as well as university policies, are the same at both locations.

Services and Facilities

The Concord Campus promotes student success through a variety of services. These include academic advising on general education (GE) and graduation requirements, as well as administrative and instructional support services. Students are referred to their departments for major advising. Instructional support services include advanced computer laboratories, modern smart classrooms, a branch of the

university's library, and a free shuttle service between the campus and the Concord BART station. There is also an on-site café/bookstore and student lounge.

About the Oakland Center

Cal State East Bay's Oakland Center serves the community as a conference center and corporate training facility, and is home to many *Continuing Education* classes.

Cal State East Bay's Oakland Center specializes in programs for working adults and offers professional development and certificate courses, and further demonstrates the University's regional commitment.

University Police Department

Cal State East Bay enjoys low crime statistics due to an on-campus, professionally trained police department which delivers public safety services to the campus community. The University Police Department programs such as the Bicycle Patrol and Escort Service provide Cal State East Bay with a community-oriented form of police services, which allows for personal interaction between police personnel and members of the university community while providing an increased level of crime prevention patrol on campus grounds.

The department offers several on-going programs available to staff, faculty, and students on the following topics: alcohol and drug awareness, acquaintance rape and awareness, and self-protection for women. The department also distributes a wide variety of crime prevention materials and offers vehicle lockout, battery failure, fingerprinting, and lost and found assistance.

The following information may be obtained from the University Police Department, (510) 885-3791:

- Information concerning Cal State East Bay policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus.
- Information concerning Cal State East Bay's annual campus security report and annual fire safety report. This information is also available on the CSUEB website at Campus Security Report.
- Information concerning the prevention of drug and alcohol abuse.

For information about Emergency Contacts see the *Reporting Campus Emergencies* chapter on the left-navigation pane.

Office of Prospective Student Services

The Office of Prospective Student Services (OPSS) offers a vast array of outreach and recruitment services to prospective high school and transfer students interested in attending Cal State East Bay. Services include campus tour programs, small and large scale admission and recruitment events for

prospects, applicants, and admitted students and their families, pre-admission advising (both on-campus and in the community), attendance at college fairs, presentations, and serving the community at large to increase CSU and CSUEB awareness and matriculation to the university.

For more information about prospective student services, call (510) 885-2556 or e-mail admissioncounseling@csueastbay.edu. To schedule a campus tour or a pre-admission advising appointment, at the Hayward or Concord campus, visit www.csueastbay.edu/visit

Housing and Residence Life

Student Housing and Residence Life (SHRL) department, in conjunction with the mission of the University and the Division of Student Affairs, works to engage all residential students in their holistic development and academic success towards retention, graduation and future endeavors. SHRL works to sustain this mission by providing student centered programs, services and facilities that foster a safe, inclusive and vibrant residential learning community.

Students must be enrolled to live on campus. There are currently two complexes: Pioneer Heights Apartments/Suites and University Village Apartments. First-time freshmen meeting the established criteria are housed in the Pioneer Heights suite resident halls. Non First-Year students are housed in the Pioneer Heights and University Village apartments. All housing is based on a first-come, first-served basis.

Pioneer Heights

Located conveniently on campus, the California State East Bay Student Apartments/Suites are comfortable and affordable. Living in a community designed to meet the needs of students can help you in gaining the most from your university experience.

The Pioneer Heights apartments and suites are spacious, attractive, and fully furnished. The apartments feature single (for upper division students or students who are 21 or older), double, or triple bedroom accommodations, a full kitchen, living and dining area and one or two bathrooms. The suites feature double bedroom accommodations, a kitchenette with refrigerator and microwave oven, a living and dining area and two bathrooms. High-speed Internet access and basic cable is included as part of the rent. Study, laundry, and recreation rooms with television, billiard and ping-pong tables, are among the amenities with the Recreation and Wellness Center conveniently located across the street. Outdoors, you'll find lighted basketball courts, as well as a barbecue terrace. Convenient meal plans are required for all students living on campus making it easy to save time and great meeting place to share a meal with friends.

University Village

Located across the street from the University's north campus entrance, the California State University, East Bay student apartments are comfortable and affordable.

The University Village apartments are spacious, attractive, and fully furnished. The apartments feature a double or triple occupancy bedroom accommodations, a kitchenette, living area and one or two bathrooms. The apartments are updated with modern cabinets, a stainless steel refrigerator, and a stainless steel convection microwave. High-speed Internet access and basic cable is included as part of the rent. Study, laundry, a community kitchen, and a recreation room with television, billiard and ping-pong tables, are among the amenities. Convenient meal plans are required for all students living on campus making it easy to save time and great meeting place to share a meal with friends.

The Residence Life Program is part of a vibrant and growing housing program; Residence Life strives to be intentional and student-centered. We work collaboratively with members of the CSUEB community to promote the following:

- We help our students build inclusive, socially just and interactive communities where every member feels a sense of belonging.
- We work to foster student growth in a manner that shapes character and develops independence.
- We encourage our students to explore their personal identity and embrace diversity as well as appreciate individuality.
- We promote healthy communication, intellectual discourse and support students in achieving academic success.
- We endeavor to help our students understand their role, rights and responsibilities as members of the CSUEB community and as citizens of our world.

The Housing application and contract process is completely online. Applicants are notified once the Housing Application and Contract is available, typically in early May. Housing has a limited number of spaces available so be sure to check the Student Housing website frequently to ensure you have the most updated information. It is important to note that the university's admission application is separate from the housing application and contracting process. Visit the Student Housing and Residence Life website (click on the picture) to learn more about the application, contracting and room selection process: <http://www20.csueastbay.edu/students/campus-life/housing/>

Contact Student Housing and Residence Life at 510-885-7444 or stop by Lassen Hall, located across the street from the Recreation and Wellness Center.

Off Campus Housing

Identifying Off-Campus Housing in the East Bay can be challenging and we want to ensure that you have a few resources to help you through the process. Please give yourself ample time-about two to three months to search for Off-Campus Housing. The Student Housing & Residence Life website (click on picture) will assist you in your transition off campus and help you understand your rights and responsibilities in the greater community. Browse this great resource to start your search and learn about other off-campus housing information! Remember, you have to be motivated and actively looking when finding Off Campus Housing.

Student Health and Counseling Services

Student Health and Counseling Services (SHCS) provides quality health care by board certified, licensed, and credential health care providers and counselors to current regularly enrolled CSUEB students. Our goal is to assist you in achieving and maintaining optimal health while pursuing your academic and career goals.

Student Health and Counseling Services hours of operations are Monday through Wednesday and Friday from 8:30 a.m. to 5:00 p.m., Thursdays from 10:00 a.m. to 5:00 p.m. Hours may vary during Summer Quarter and Quarter Breaks. Students can be seen on an appointment basis. Same day appointments are available for urgent needs. Limited services are also offered during quarter breaks. Medical and counseling services are also available at the CSUEB Concord Campus. After hours and weekend mental health phone crisis counseling is available by calling our main number (510) 885-3735, and choose option "2". For more information, please call (510) 885-3735 or visit www.csueastbay.edu/shcs.

Funded by your student health fees, SHCS provides an extensive array of outpatient health and mental health care services at no or low cost to students. General medical visits with board-certified, licensed medical doctors, nurse practitioners, nurses, and medical assistants for the care, evaluation, and treatment of acute illnesses and injuries, health education and family planning are available. SHCS also provides confidential individual, couples, and group counseling. All counselors are licensed or pre-licensed professionals.

Services offered at SHCS are Health Education, Hearing Tests, Immunizations*, Laboratory*, Massage Therapy*, Orthopedics, Personal Counseling, Pharmacy*, Physical Exams, Physical Therapy, Psychiatry, Radiology (X-Ray)*, Reproductive Health Services*: Birth Control, HIV Testing, STI Testing & Treatment. *Fees may apply

To provide the holistic experience of college health, the Wellness Center also offers a Relaxation Room and a Wellness Room with health education activities and information. The Wellness Center is located in the Recreation and Wellness (RAW) Building. For more information visit www.csueastbay.edu/raw.

Confidentiality

All medical and counseling information is confidential by law and will not be released without your written consent.

Accreditation

SHCS is accredited by the Accreditation Association for Ambulatory Health Care, Inc. The SHCS facility and services meet the national standards for providing the highest quality of health care available.

Peer Advocates for Wellness (PAW)

PAW is an opportunity for CSUEB students to become involved with SHCS. Under the supervision of Health & Wellness Services, PAW interns are trained peer health educators who provide resource information, peer support, and outreach about health and wellness issues. For more information, email: paw.csueb@gmail.com.

Student Health Advisory Committee (SHAC)

SHAC advocates for the health needs of students and advises the SHCS Director and University President on programs, scope of services, and hours of operation for SHCS. For more information, email: shac.csueb@gmail.com.

Insurance

Students are strongly encouraged to carry outside coverage for after-hours care, emergency situations, or when referrals to outside providers are needed. For more information about insurance options, visit: www.coveredca.com, www.csuhealthlink.com, or email: csuebhealthinsurance@csueastbay.edu.

Cashiering

The Cashier's Office is responsible for the general cashiering function for the University. They distribute the payroll warrants for all employees and perform a collection function for emergency loans, returned checks and housing rental payments. In addition, they sell parking hang tags, distribute emergency loan checks and provide information to students, staff and faculty on various issues. Cashiers Office is located on the first floor of the Student Services and Administration building on the Hayward Campus.

Greek Life

Cal State East Bay's Greek organizations include nationally affiliated organizations as well as local and regional groups. Greek organizations promote scholarship, provide numerous leadership opportunities and participate in a wide variety of community service activities. Greek organizations also provide members with the opportunity to develop lifelong friendships that enhance the college experience. For more information, check out their Facebook Page.

Campus Parking & Transportation Services

Campus parking facilities are available to students, faculty and staff displaying valid parking permits. Quarterly permits may be purchased online. Parking permits are required Monday-Thursday from 7am-11pm & Fridays from 7am-5pm. Contact Parking and Transportation Services for current rates and the online link. Parking permit dispensers are located in several lots. Daily and Hourly permits may be purchased at these dispensers. In addition, there are a several metered spaces available on the Hayward campus. See campus maps for locations of parking dispensers and meters.

Commuting is convenient with three BART (Bay Area Rapid Transit) train stations near the Hayward Hills campus and two BART stations serving the Concord campus. The University offers shuttle service

to and from BART at both campuses for faculty, staff, and students. On-campus parking is also available for a daily or quarterly fee.

Hayward Campus

The Hayward and South Hayward stations are within three miles of the Hayward campus, and the Castro Valley station is four miles away. The University operates a shuttle bus between the Hayward BART station and the Hayward campus, which students may ride for free (with a current Bay Card). The AC Transit bus # 60 also runs between campus and the Hayward BART station. Adult bus fare is \$2.10 and monthly passes are available. The university is a short distance from Interstate 880 (via Santa Clara Street and Harder Road) and Interstate 580 (via Foothill and Mission Boulevards).

Concord Campus

A free student shuttle operates between the campus and the Concord BART station, both days and evenings, Mondays through Thursdays.

Commuter Services Alternatives

Cal State East Bay offers several commuter services alternatives via the Alternative Transportation Office, (510) 885-3790.

A free shuttle service is available Monday - Sunday between the Hayward campus and the Hayward BART station. Free shuttle service is available Monday -Friday between the Hayward campus and the Castro Valley station. The service is available to everyone, however those with a valid CSUEB ID card are allowed to board first. The shuttle bus schedule is available on the Web at: www20.csueastbay.edu/sa/parking/alt-trans/csueb-shuttle.html

The Alternative Transportation office also offers a Vanpool Program for CSUEB Faculty and Staff. In addition the University is a participant in the Zipcar program. We currently have 6 Zipcar vehicles available on campus to rent on an hourly basis. Also, in partnership with our Campus Recreation Department, we have Zagster on campus, which is a bike sharing program. There 10 Zagster bicycles that are available on campus. Zagster bicycles can be rented by the hour and are a great way to get around campus.

Zimride is our new ride sharing program. Open to all faculty, staff & students, Zimride allows you to create a profile and then matches you up with other campus members that share the same schedule and profile as yours. If you are interested in joining Zimride, you can do so at: www.zimride.com/csueb.

AC Transit provides service to the campus Monday - Sunday from the Hayward BART station via Line #60. Bus #60's schedule can be found: www.actransit.org.

For more information on Alternative Transportation options, please call the Alternative Transportation Office at (510) 885-3790.

Moss Landing Marine Laboratories

Cal State East Bay is also part of a university consortium that operates the Moss Landing Marine Laboratories in Monterey Bay. In addition, the University runs a San Francisco Bay shore lab with marine and freshwater craft operating in the bay and Sacramento River delta.

Moss Landing Marine Laboratories (MLML) administers the Master of Science in marine science program for California State Universities in northern and central California, and is dedicated to the pursuit of excellence in both education and research. An outfitted marine operations department, active research diving program and state of the art equipment allow for cutting edge research in a wide variety of disciplines including: marine ecology; the biology of marine plants, invertebrates, fishes, turtles, birds and mammals; oceanography and marine geology; chemistry and biogeochemistry. MLML is known for a hands-on, field-oriented approach which places our students at the frontiers of marine science worldwide where discoveries are being made. MLML provides the skills and training so students become successful scientists, teachers and resource managers serving societal needs involving marine issues.

The lab is situated in an excellent location for the study of the marine world. The Monterey Submarine Canyon, the largest such feature on the west coast of North America, begins within a few hundred meters of the Moss Landing harbor and the MLML research fleet. To the east of MLML is the Elkhorn Slough, the largest tract of tidal salt marsh in California outside of San Francisco Bay, and an important site for shorebirds and fishes. To the north and south are sand dunes, sandy beaches, and extensive kelp forest habitats along the rocky shoreline. Some of the most productive kelp forests and intertidal areas can be found in this region. MLML also is located between two large upwelling centers, which provide nutrients that stimulate an incredible amount of productivity but also provide a wealth of opportunities to study coastal oceanic processes.

Full-time course offerings are available for resident credit and the facilities are used to supplement courses taught on the Hayward Hills campus. The laboratories are located 82 miles south of Hayward on Monterey Bay, and some classes are taught in Salinas. See the Marine Science Program chapter in this catalog for further details and for courses offered at Moss Landing, as well as information on the M.S. program in Marine Science.

University Extension Programs

Continuing Education

Continuing Education at Cal State East Bay features a broad spectrum of courses, certificate programs, and degree programs that complement the University's regular curriculum, and meet the academic, professional, creative and lifelong learning goals of its diverse community.

CE designs courses to fulfill the needs of current job market trends, enhance professional development, and promote personal enrichment. Offering more than 40 certificate and degree programs in a variety of industries and fields, CE allows you to explore career options and pursue opportunities for advancement.

You may take one or more individual courses, enroll in a certificate program, or attend a seminar or conference. In some cases, academic credit is awarded; while in others, Continuing Education Units (CEUs) are available. In programs designed specifically for personal enrichment, no academic credit is awarded.

American Language Program

The university's American Language Program provides instruction for international students in academic English and introduces them to American culture. Each year, students from more than 25 countries enroll in the program. After graduating from the American Language Program, international students often enroll as matriculated students in the university.

Open University Concurrent Enrollment

The "Open University" program allows individuals to enroll in regular university classes without being formally admitted to the university. Regularly enrolled resident or non-resident students are not eligible to take Open University courses.

Open University students will be granted "Open University" extension credit for coursework. There are limits on the number of Open University extension units that may be applied toward university degrees. Up to 36 units may be applied towards a baccalaureate degree and up to 13 units for a master's degree.

Restrictions

Continuing Education registration, in most courses or programs, does not require formal admission to the university. For some programs, however, students may be required to meet certain requirements prior to being eligible to register. Only registration in self-support Special Session classes provides "continuing student" status to admitted, matriculated students.

General Information

Information on courses, programs, and enrollment procedures is available through University Extension's quarterly bulletin, on the university website (www.ce.csueastbay.edu), by phone (510-885-3605), and by e-mail (ce@csueastbay.edu).

Technology, Communication, and Media Support

The Division of Information Technology Services, ITS, strives to support and enrich the university experience for students, faculty and staff—an experience that is increasingly technology enabled and network based. ITS teams develop, operate and maintain the University's shared information technology infrastructures, major administrative and academic information systems, baseline instructional and information technologies, and the requisite technical support services. ITS provides support services to the University community via the following two primary groups:

- **Academic Technology and Support Services (ATSS)**
 - Academic Technology and Support Services is responsible for the support of academic technologies delivered throughout campus and online. Components of this organization are also engaged in the research of new and emerging technologies as they pertain to the instructional mission of the University. ATSS is comprised of the following:
- **Media and Academic Technology Services (MATS)**
 - Media and Academic Technology Services (MATS) Located in the Lower Mall across from the Library in room LI 2800, MATS provides support for faculty presentation needs and facilitates their use of instructional technology and instructional media. Some of the services provided by MATS are multimedia production, consultation with individual faculty on computer applications and presentation equipment, coordination of campus-wide technology funding initiatives, online education including the campus learning management system (Blackboard), Internet delivered instruction, streaming media technologies, and instructionally related video editing and production.
- **Classroom Technology Services (CTS)**
 - Located in LI 1099, CTS provides support for technology resources in the University's classrooms. Services include maintaining smart classrooms, ensuring the optimal operation of presentation and computer equipment in these rooms, as well as providing technology delivery services such as the delivery of computer carts to non-technology equipped classrooms.
- **User Support Services (USS)**
 - The USS department of the Division of Information Technology Services provides desktop support and consulting to the academic and administrative faculty and staff. Services include delivery, configuration, troubleshooting, and removal of computers; distributing and installing licensed software applications; consulting with faculty and staff members to assist with the operation of their computers; and providing services to secure the University's computers and to protect computers from security threats. USS is responsible for the purchase, control, and deployment of all ITS-owned assets including software.
 - USS also manages a central Service Desk, which is available to all members of the campus community who have questions regarding computing software, hardware and network communications. The Service Desk can be reached by calling 885-H-E-L-P (4357), e-mailing servicedesk@csueastbay.edu or online at <http://servicedesk.csueastbay.edu>.

In addition, ITS provides training for staff and administrators in selected university-specific enterprise computer applications. See the training website for more information at <http://www20.csueastbay.edu/its/departments/cis/training-help/>.

California State University, East Bay Foundation, Inc.

California State University, East Bay Foundation, Inc. is a non-profit auxiliary organization within the California State University system. The Foundation contracts with Follett to manage the Pioneer

Bookstore and receives grants from federal, state and local governments and private foundations on behalf of the Office of Sponsored Research and Programs in support of the University.

The CSUEB Foundation is governed by a board of directors comprised of faculty, students, staff, administrators and community members. The Foundation is incorporated as a nonprofit public benefit corporation and is exempt from federal income tax under section 501(c)(3) of the Internal Revenue Code.

Cal State East Bay Educational Foundation

Cal State East Bay recognizes that the margin of excellence in institutions of higher education depends increasingly on external funding from alumni, corporations, foundations, and individual donors. In order to further the university's mission of service to the region, the Cal State East Bay Educational Foundation was formed in 1990 to help forge partnerships with the private sector. The foundation is governed by a board of trustees which includes university leaders and prominent members of the community.

Course Descriptions

Course Numbering Key

The numbering of courses is intended to describe the level at which they are offered. Any student, however, may enroll for any course if he or she has completed the listed prerequisites, except for certain graduate courses.

Course Number	Description
0800-0999	Remedial courses (not for baccalaureate degree credit)
1000-1999	Freshman level courses
2000-2999	Sophomore level courses
3000-3999	Junior level courses
4000-4999	Senior level courses
5000-5999	Postbaccalaureate and professional level courses
6000-6999	Graduate level courses
7000-7699	Upper division level Continuing Education courses ¹
7700-7999	Graduate level Continuing Education courses ¹
8000-8999	Doctoral level courses

1. See the quarterly schedule of the Continuing Education website for classes offered each quarter.

Class Hours per Week

The number of class hours a course meets per week equals the number of units listed for the course, unless otherwise indicated in the course description. (A "class hour" is 50 minutes.) Supervision courses

(e.g., independent study, project, thesis) have no prescribed correspondence between class hours per week and units.

Accounting

ACCT 2251 - Introduction to Financial Accounting

Units: 4

Introduction to financial accounting concepts and procedures; interpretation and analysis of financial statements for operating, investing, and financing decision-making. **Prerequisites:** *Satisfactory completion of Entry-level Mathematics (ELM) requirement, and either credit for intermediate algebra or a satisfactory score on the Mathematics Diagnostic Test (MDT).* **Credit Restrictions:** Not open to students with credit for ACCT 2210.

ACCT 2253 - Introduction to Managerial Accounting

Units: 4

Use of accounting information for managerial decision-making in planning and control including cost classification; estimation and analysis; job-order, variable, and activity-based costing; cost-volume-profit and relevant cost analysis; profit planning; capital budgeting. **Prerequisites:** ACCT 2251.

ACCT 2701 - Legal Environment of Business

Units: 4

Legal and institutional setting in which business operates; the nature, sources, functions, and processes of law and legal reasoning relating to contracts, agency, torts, partnerships, and corporations; government regulations and administrative law as they apply to the legal environment. **Credit Equivalency:** Formerly MGMT 2701.

ACCT 3170 - Accounting Information Systems I

Units: 4

The roles and responsibilities of business information systems within the IT function. Concepts covered: hardware, software, operating systems, database management systems, systems operation, disaster recovery, business continuity, electronic commerce and information systems controls. **Prerequisites:** *Satisfying digital proficiency.*

ACCT 3210 - Cash Management

Units: 4

Principles of cash management in a corporate finance setting. Focus on how financial accounting, the collection cycle, electronic commerce, information technology, investment strategies, debt, and international business affect cash management. Yield curve analysis. **Prerequisites:** ACCT 2251 and FIN 3300.

ACCT 3211 - Intermediate Financial Accounting I

Units: 4

First course in the intermediate financial accounting sequence. Topics include: conceptual framework for financial reporting and standard setting, accounting process, financial statements, and accounting for revenue recognition, cash, receivables and inventories. **Prerequisites:** ACCT 2251 or equivalent, with "C-" grade or better.

ACCT 3212 - Intermediate Financial Accounting II

Units: 4

Second course in the intermediate financial accounting sequence. Topics include: time value of money, operational assets, current liabilities and contingencies, bonds and long-term notes, investments, derivatives and leases. **Prerequisites:** ACCT 3211 or equivalent, with "C-" grade or better.

ACCT 3213 - Intermediate Financial Accounting III

Units: 4

Third course in the intermediate financial accounting sequence. Topics include: income taxes, pension, shareholders' equity, employee compensation, earnings per share, accounting changes and error corrections, and statement of cash flows. **Prerequisites:** ACCT 3212 or equivalent, with "C-" grade or better.

ACCT 3220 - Tax Accounting: Fundamentals and Individuals

Units: 4

Subject matter focuses on tax fundamentals such as gross income, losses, property transactions, tax accounting and individual taxation. Skills developed include tax research, analysis and technical writing in the context of the course subject matter.

ACCT 3228 - Volunteer Income Tax Assistance (VITA): Income Tax Return Preparation

Units: 4

Classroom training in the preparation of federal and state income tax returns. Students are assigned individual state and federal tax returns to prepare and file for clients from the community. **Prerequisites:** Permission of instructor. **Repeatability:** May be repeated once for credit.

ACCT 3230 - Cost Management

Units: 4

Fundamental concepts of cost accounting, new developments in cost management, and costing information for managerial decisions. Topics include various costing systems, activity-based costing, cost allocation, pricing decisions, transfer pricing, and performance measurements. **Prerequisites:** ACCT 2253, MGMT 3100.

ACCT 3280 - Accounting for Governmental and Nonprofit Entities

Units: 4

Accounting standards for governmental and nonprofit entities. Emphasizes special characteristics of governmental accounting: modified accrual basis, fund-based accounting, budget-based reporting, and government reporting model. Unique issues for private-sector nonprofit organizations, particularly health care providers or colleges and universities. **Prerequisites:** ACCT 3211.

ACCT 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** At least 2.0 GPA; departmental approval of activity. **Credit Restrictions:** Units not applicable to options or minor. **Repeatability:** May be repeated for credit, for a maximum of 4 units. **Grading:** CR/NC grading only.

ACCT 3999 - Issues in Accounting

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in accounting. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

ACCT 4170 - Accounting Information Systems II

Units: 4

Topics include concepts of REA data modeling in the design of an accounting information system, advanced Access queries for financial and managerial decision-making, introduction to the Oracle database for financial reporting, fundamentals of global financial reporting language XBRL.

Prerequisites: ACCT 3170. **Grading:** A-F grading only.

ACCT 4211 - Advanced Financial Accounting

Units: 4

Emphasis on business combinations. Other topics include partnership accounting, interim and segment reporting, foreign currency transactions, accounting for derivatives and hedging foreign exchange risk, and translation of foreign subsidiaries' financial statements. **Prerequisites:** ACCT 3212 with a grade not lower than "C-".

ACCT 4220 - Tax Accounting: Corporate Tax

Units: 4

Corporate taxation from inception to dissolution. Also includes consolidated returns, multinational issues, multistate issues, S Corporations, and tax exempt corporations. Skills developed include tax research, analysis and technical writing in the context of the course subject matter.

ACCT 4221 - Tax Accounting: Partnerships, Gifts, Estates, Trusts

Units: 4

The taxation of partnerships and partners, gift tax, estate tax, and income taxation of trusts and estates. Skills developed include tax research, analysis and technical writing in the context of the course subject matter. **Prerequisites:** ACCT 3220 *or* ACCT 4220.

ACCT 4223 - Business Law for Accountants

Units: 4

Business law topics of the CPA exam including contract law, commercial law (UCC), compliance with government regulations, negotiable instruments, secured transactions, bankruptcy, agency, employment and labor law, antitrust law, federal securities laws, business entities, and property.

ACCT 4227 - Volunteer Income Tax Assistance (VITA): Supervisory IV

Units: 4

Coordinating the operations of two or more VITA centers to achieve optimum combination of output and quality control and providing assistance to center supervisors in answering technical taxation questions, directing VITA preparers, and solving other center problems. **Prerequisites:** ACCT 3220 *and consent of instructor*. **Credit Restrictions:** Not more than 12 units of VITA coursework can be counted toward undergraduate degree requirements. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

ACCT 4250 - Auditing I

Units: 4

Topics include: nature and scope of engagement, audit planning, internal control in both manual and computerized environment, audit evidences, reports on audited financial statements and internal control, current announcements of the PCAOB, and the latest SAS. **Prerequisites:** ACCT 3212.

ACCT 4251 - Auditing II

Units: 4

Evaluation of information obtained to reach engagement conclusions. Reports required by GAS. Reports on: reviews and compiled financial statements, compliance with laws and regulations, agreed upon procedures, and the processing of transactions by service organizations. **Prerequisites:** ACCT 4250. **Grading:** *A-F grading only*.

ACCT 4252 - Information Technology Audit

Units: 4

Topics include: Understanding IT risks; the COBIT framework; audits of computerized information systems, proper system access and segregation of duties; the computer facility, the process of developing and implementing information systems, review of audit software. **Prerequisites:** ACCT 3170 *and* ACCT 4250. **Grading:** *A-F grading only*.

ACCT 4253 - Internal Auditing

Units: 4

Introduction to internal audit profession and process. Topics include the definition of internal auditing, IIA International Professional Practices Framework, risk, governance, control issues, conducting internal audit engagements, auditing standards, working papers, audit procedures and evidence gathering, sampling, and flow charting. **Prerequisites:** ACCT 3211 with a grade "C" or better. **Grading:** A-F grading only.

ACCT 4254 - Forensics Accounting and Fraud Examination

Units: 4

Examines fraud schemes and related financial transactions along with approaches to detect and deter fraud and studies the legal and investigative aspects of fraud examination. Assists students in the preparation for certification for Fraud Examiner. **Prerequisites:** ACCT 3212. **Grading:** A-F grading only.

ACCT 4370 - International Accounting

Units: 4

A study of transnational financial reporting and disclosure issues, including foreign currency translation and changing prices, comparative financial statement analysis, and the introduction of international accounting and auditing standards. **Prerequisites:** ACCT 3212.

ACCT 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

ACCT 4911 - Accounting Ethics

Units: 4

Ethical issues and responsibilities of accountants through discussion of ethical reasoning techniques, professional guidance by AICPA, SEC, and Sarbanes Oxley Act, and financial statement fraud cases. **Prerequisites:** ACCT 2251.

Accounting: Graduate

Graduate Courses

Restricted to "Classified" and "Conditionally Classified" Graduate Students.

Course prerequisites are enforced but may be waived per approval of the director of Graduate Programs.

ACCT 6015 - Financial Accounting

Units: 4

Focus on financial reporting, analysis, interpretation, and decision-making for managers. Topics include constructing, analyzing and interpreting financial statements; analyzing transactions, reporting and analyzing operating income, operating assets, debt financing, owner financing, and off-balance-sheet financing. **Prerequisites:** All CBE and University proficiencies, including the UWSR. **Grading:** A-F grading only.

ACCT 6202 - Corporate Tax

Units: 4

Corporate taxation from inception to dissolution. Also includes consolidated returns, multinational issues, multistate issues, S Corporations, and tax exempt corporations. Skills developed include tax research, analysis and technical writing in the context of the course subject matter. Undergraduate, upper division course plus a graduate tutorial module. Students in the MBA (Taxation Option) have registration priority. **Credit Restrictions:** Not open to those with credit for ACCT 4220.

ACCT 6215 - Managerial Accounting

Units: 4

Focus on analyzing accounting information critical for managerial decision-making. Topics include cost estimation, cost-volume-profit analysis, product costing, activity-based costing and management, operational budgeting, capital budgeting decisions, pricing and target costing, performance evaluation, segment reporting, and balanced scorecard. **Prerequisites:** All CBE and University proficiencies, including the UWSR; All MBA Fundamental Courses. **Grading:** A-F grading only.

ACCT 6222 - Income Taxation of Partners and Partnerships

Units: 4

Concepts and principles governing the taxation of partners and partnerships; including the tax effect of formation, partnership agreements, distributions, and dissolutions.

ACCT 6223 - Federal Tax Research, Procedures, and Penalties

Units: 4

Methods of researching federal tax issues using LEXIS and other research materials with a focus on case studies. Emphasis on administrative procedures, introduction to the judicial process, and taxpayer and preparer penalties.

ACCT 6224 - Advanced Corporate Taxation

Units: 4

Corporate liquidations, redemptions, reorganizations, carryovers of tax attributes, personal holding companies, accumulated earnings tax, collapsible corporations, consolidated returns, and employee compensation plans.

ACCT 6226 - State and Local Taxation

Units: 4

A study of principles and concepts of state and local taxation. Includes income tax, property tax and sales/use tax. Selected State of California tax issues are discussed as well as multistate tax issues. Considers individuals, partnerships, corporations, and other entities.

ACCT 6227 - S Corporations and Other Flow-Through Entities

Units: 4

Concepts and principles governing the taxation of S corporations and S shareholders; including the tax effect of formation, operations, distributions, and liquidations. Selected advanced partnership issues.

ACCT 6229 - Estate/Gift Tax and Income Taxation of Estates and Trusts

Units: 4

Taxation of beneficiary, estate, gift, and related tax treatment of fiduciary entity. Focus on estate tax planning.

ACCT 6258 - Tax Planning for Individuals

Units: 4

Individual tax planning, minimizing taxes. Comprehensive personal financial planning: retirement income planning, estate planning, short-term investment planning. Tax consequences of property transactions and different arrangements, such as family trusts, wills, private annuities.

ACCT 6410 - Tax Accounting Periods and Methods

Units: 4

Cash and accrual methods, startup and organization costs, installment sales, accounting periods and the appropriate tax year-end, inventory methods including the uniform capitalization rules, original issue discount, bad debt reserves, and FASB 109.

ACCT 6420 - Fundamentals of Federal Income Taxation

Units: 4

Federal income taxation concepts applicable to individuals, corporations, partnerships. Gross income, deductions, credits, property transactions, tax accounting methods. Rules governing formation, operation, disposition of partnerships/corporations. **Credit Restrictions:** Not open to students in M.B.A. option in Taxation.

ACCT 6470 - International Tax: Inbound

Units: 4

Primarily involves the study of taxation of Inbound International Business. Examines jurisdiction to tax

citizens, residency issues, sources of income and deductions, U.S. taxation of foreign persons, and methods of transfer pricing.

ACCT 6472 - International Tax: Outbound

Units: 4

Primarily involves a study of taxation of outbound international business. Examines the U.S. tax effects of foreign branches and foreign entities, foreign tax credit limitations, international sales of goods, and transfer of rights and intangibles.

ACCT 6510 - Accounting Theory

Units: 4

Critical study of alternative accounting theories and their implications for accounting standard setting. Topics include information and decision theory, role of accounting in capital markets, information content of earnings, clean surplus theory, positive accounting theory, executive compensation, and earnings management. **Grading:** *A-F grading only.*

ACCT 6520 - Strategic Cost and Performance Management

Units: 4

Design of cost and performance management systems for strategic managerial decision-making and for implementing strategy. Topics include activity-based costing systems, activity-based management, profit planning, evaluating profit performance, transfer pricing, balanced scorecard, and incentive and compensation systems. **Grading:** *A-F grading only.*

ACCT 6540 - Financial Reporting for Special Industries

Units: 4

In-depth study of financial reporting standards and accounting issues for banking and financial institutions and other topics for special industries including real estate, environmental and oil and gas accounting, accounting for high-tech firms and wine industries. **Grading:** *A-F grading only.*

ACCT 6541 - Healthcare Accounting

Units: 4

In-depth study of financial reporting standards and accounting and cost management issues for healthcare organizations such as hospitals, medical centers, nursing homes, and health insurance companies. **Grading:** *A-F grading only.*

ACCT 6542 - Financial Reporting for Banks and Financial Institutions

Units: 4

An in-depth study of accounting and financial reporting for banks and financial institutions. Topics include regulations and regulatory capital matters for banks and financial institutions, bank's financial

statements, evaluating the performance of banks, and accounting and financial reporting for banks. **Grading:** A-F grading only.

ACCT 6550 - Advanced Accounting Information Systems

Units: 4

In-depth study of accounting and financial reporting for banks and financial institutions. Topics include regulations and regulatory capital matters for banks and financial institutions, bank's financial statements, evaluating the performance of banks, and accounting and financial reporting for banks. **Grading:** A-F grading only.

ACCT 6560 - Financial Statement Analysis and Business Valuation

Units: 4

Analysis and forecast of financial statements for business valuation and financial strategies. Topics include financial statement analysis and forecast, business valuation using accounting and cash flow based models, valuation analysis for equity security, credit decisions, and mergers and acquisitions. **Grading:** A-F grading only.

ACCT 6570 - Financial Reporting Systems: Oracle Financial Applications I

Units: 4

Design and implementation of financial reporting systems using Oracle Financial Applications. Topics include system design and implementation for a company from financial reporting analysis, chart of accounts design, transaction processing to reports generation using Oracle General Ledger and Receivables systems.

ACCT 6571 - Financial Reporting Systems: Oracle Financial Applications II

Units: 4

Design and implementation of financial reporting systems using Oracle Financial Applications. Topics include system design for a company from payable and asset system setup, payables and assets transaction processing to reports generation using Oracle Payables and Fixed Assets systems. **Grading:** A-F grading only.

ACCT 6580 - International Financial Reporting and Standards

Units: 4

Focus on international financial reporting standards and their applications, and the discussion of environmental dimensions influencing accounting development, comparative financial statement analysis across countries, and other accounting issues associated with multinational corporations. **Grading:** A-F grading only.

ACCT 6590 - Attestation and Information Systems Audit

Units: 4

Topics include: current announcements of the PCAOB and the latest SAS, functions of internal audit under the Sarbanes-Oxley Act, application of the Enterprise Risk Management-Integrated Framework, information-technology audit using ACL and IDEA, and concepts of XBRL audit. **Grading:** *A-F grading only.*

ACCT 6600 - Mergers and Acquisitions

Units: 4

Topics include: M&A process, legal and regulatory framework, accounting for M&As, taxation and acquisitions, strategic processes, theories of merger, empirical tests of M&A performance, valuation, alliances and joint ventures, international takeovers and restructuring, and strategies for creating value. **Grading:** *A-F grading only.*

ACCT 6611 - Financial Reporting and IFRS I

Units: 4

First course in the sequence of financial reporting and IFRS. Topics include U.S. Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS) on conceptual framework for financial reporting, the accounting process, financial statements, revenue recognition, cash, receivables, and inventories. **Grading:** *A-F grading only.*

ACCT 6612 - Financial Reporting and IFRS II

Units: 4

Second course in the sequence of financial reporting and IFRS. Topics include U.S. Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS) on property; plant; and equipment, intangible assets, current liabilities and contingencies, long-term liabilities, and leases. **Grading:** *A-F grading only.*

ACCT 6613 - Financial Reporting and IFRS III

Units: 4

Third course in the sequence of financial reporting and IFRS. Topics include U.S. Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS) on investments, income taxes, pensions, stockholders' equity, earnings per share, accounting changes, and statement of cash flows. **Grading:** *A-F grading only.*

ACCT 6620 - Advanced Topics in Financial Accounting

Units: 4

Detailed accounting for business combinations in the first and subsequent years, including consolidations of 100% and less than 100% ownership and intercompany transactions. Accounting for partnerships including formation, profit and loss sharing, and dissolution. **Grading:** *A-F grading only.*

ACCT 6630 - Governmental and Not-for-profit Accounting

Units: 4

Elaborate financial reporting model based on GASB No 34. Focus on distinct characteristics of governmental accounting: modified accrual basis, budgetary accounting, usage of funds. Discuss unique accounting issues for all not-for-profit entities and health care organizations. **Grading:** *A-F grading only.*

ACCT 6640 - Auditing Theory and Practice I

Units: 4

Foundation of auditing process from the perspective of historical financial statements audit. Topics include: test of controls, substantive testing, and compliance with Sarbanes Oxley Act 2002. Current professional standards of the AICPA and PCAOB are addressed. **Grading:** *A-F grading only.*

ACCT 6650 - Auditing Theory and Practice II

Units: 4

In-depth study of audit planning and communications in relation to different types of engagement. Topics include International Standards on Auditing (ISAs) and International Federation of Accountants (IFAC) Codes of Ethics for Professional Accountants. **Grading:** *A-F grading only.*

ACCT 6660 - Accountants' Ethics and Professional Responsibilities

Units: 4

Explores ethical, legal, regulatory issues and social responsibilities facing the accounting profession. Covers the elements of ethical reasoning, corporate governance, and reviews professional codes of conduct of the AICPA and other regulatory bodies and their real-world business application.

Prerequisites: ACCT 2251. **Grading:** *A-F grading only.*

ACCT 6670 - Business Law and Regulations

Units: 4

Focuses on strategic, policy and risk management aspects of the legal rights and responsibilities of a business. Utilizes case studies, group projects and presentations to develop practical approaches to deal proactively with key stakeholders in legal and regulatory compliance matters. **Grading:** *A-F only.*

ACCT 6707 - Cross-Border Transfer Pricing

Units: 4

Transfer pricing methods used for transfers of tangible and intangible property, services and financial products between U.S. corporations and their international affiliates. Advanced Pricing agreements between the U.S. and foreign tax authorities.

ACCT 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities within the quarter enrolled. **Grading:** *CR/NC grading only.*

ACCT 6899 - Project

Units: 1

A comprehensive capstone project that extends student projects completed for ACCT 6560 Financial Statement Analysis and Business Valuation course. **Grading:** *A-F grading only.*

ACCT 6900 - Independent Study

Units: 1-4

ACCT 6909 - Departmental Thesis

Units: 1-4

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. Should be taken concurrently with ACCT 6223 by students using ACCT 6909 for their terminal exercise.

ACCT 6999 - Issues in Accounting

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in accounting.

Anthropology

ANTH 1000 - Introduction to Anthropology

Units: 4

The holistic study of human beings for non-majors: concepts of human evolution, prehistory, culture; comparison in human variation; structure and function in social organization; synthesis of biological, cultural, and social factors.

ANTH 1010 - The Human Adaptation

Units: 4

Introduction to the study of humans in the natural world, human origins, and adaptations both from a cultural and biological perspective.

ANTH 1200 - Introduction to Archaeology

Units: 4

Introduction to the techniques used in recovery and interpretation of archaeological materials. Examples of the processes of cultural reconstructions from sites in the old and new world.

ANTH 1300 - Introduction to Cultural Anthropology

Units: 4

Functional approaches to the structure and dynamics of culture and society around the world; comparative study of human behavior and value systems in varied ecological settings.

ANTH 2801 - Language and Thought: Anthropological Perspectives

Units: 4

Does language influence culture? Can different languages lead their speakers to different ways of thinking? Examination of the relationship of language and thought using examples from languages around the world. Discussion of classic and contemporary works.

ANTH 3000 - Anthropology in the Modern World

Units: 4

The relevance of anthropology to contemporary world problems and issues of mankind. A course for non-majors examining topics such as the social and cultural dimensions of health services, population problems, business, management, and public administration.

ANTH 3999 - Issues in Anthropology

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in anthropology.

Repeatability: May be repeated once for credit when content varies, for a maximum of 8 units.

Anthropology: Applied

ANTH 3710 - Anthropology and Museums

Units: 4

The anthropologist in the museum profession; the curatorial role; acquisition, identification, recording, repair, preservation and display of anthropological materials. Minimum of two field trips required.

Prerequisites: ANTH 1100, ANTH 1200, or ANTH 1300, or consent of instructor. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

ANTH 3720 - Medical Anthropology

Units: 4

The ecology of health, magical beliefs, and medicine; public health and medical problems as affected by

cultural differences; the effects of acculturation upon mental and physical health. **Prerequisites:** *Junior or senior standing or consent of instructor.*

ANTH 3745 - Human Sexuality: Anthropological Perspectives

Units: 4

A cross-cultural and evolutionary study of human sexuality expanding the constricted perspectives of Western cultures, including a review of sexual practices and attitudes, gender roles in sensuality, and sexual orientation in both Western and non-Western societies.

ANTH 3750 - Women in Cross-Cultural Perspective

Units: 4

Similarities and differences in women's experiences in various societies around the world. Questions concerning gender identity, sexuality, marriage, the family, work, power, and intersections of gender with age, class and other inequalities.

ANTH 3760 - Media in Cross-Cultural Perspective

Units: 4

Introduction to socio-cultural anthropology from the perspective of visual media; ethnographic and feature films, video, and slides of field work. Assigned readings and lectures parallel media presentations placing them in a broader topical and theoretical context.

ANTH 3765 - Business Anthropology

Units: 4

Study of culture, institutions, and globalization through a focus on the anthropology of doing business. Application of anthropological insights to commercial encounters using case studies and direct experience. Topics include cross-cultural negotiation, organizational culture, and economic anthropology.

ANTH 3785 - Anthropology in Action

Units: 4

Application of anthropological theory and methods to selected contemporary problems, including public health issues and policy, education, women and children, community development. Service learning activity at a local community organization. **Prerequisites:** *Upper division standing or consent of instructor.*

ANTH 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; departmental approval of activity. Only up to 4 units may be applied to the Anthropology major. Not for credit in the Anthropology minor.* **Repeatability:** May be repeated for credit, for a maximum of 8 units. **Grading:** *CR/NC grading only.*

Anthropology: Archaeology

ANTH 3200 - Science in Archaeology

Units: 4

Introduction to the application of the physical sciences in the solutions of problems in prehistory. Emphasis on dating methods and paleoenvironmental reconstructions. **Prerequisites:** ANTH 1200 or consent of instructor.

ANTH 3250 - Precolumbian America: Aztec, Inca, Maya

Units: 4

The origins, growth and interaction of the Mesoamerican and South American civilizations, with particular emphasis on the Aztecs, Incas and Mayas. Archaeological, historical and ethnographic evidence.

Anthropology: Biological

ANTH 1100 - Introduction to Biological Anthropology

Units: 4

An introduction to human biology from an evolutionary perspective. Topics include evolutionary theory, evolution of the primates based on fossil remains, behavioral studies of living primates, and modern human variability and adaptations.

ANTH 3100 - Human Evolution I

Units: 4

Human and non-human primate evolutionary history. Fossil evidence, comparative anatomy and molecular systematics; Primate evolutionary history based on fossil evidence and comparative anatomy

ANTH 3101 - Human Evolution II

Units: 4

Human and non-human primate evolutionary history. Fossil evidence, comparative anatomy and molecular systematics; The fossil evidence for human evolution. One course is not prerequisite to the other. **Prerequisites:** ANTH 1100 or BIOL 3020 or equivalent, or consent of instructor.

ANTH 3110 - Primate Social Behavior

Units: 4

A survey course concerned with behavior of non-human primates. Discussions of the relationships between social structure and the environment. The relevance of the study of non-human primate behavior to an understanding of human behavior will be emphasized.

Anthropology: Biological Archaeology

ANTH 4240 - Data Analysis in Archaeology

Units: 4

General field and laboratory techniques for retrieval and analysis of data recovered from prehistoric and/or historic sites. **Prerequisites:** ANTH 1200 *or consent of instructor*. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

ANTH 4250 - Field Course in Archaeology

Units: 5

Techniques of surface survey and scientific excavation; controlled data retrieval from a variety of archaeological field situations. Aspects emphasized will depend on available opportunities. **Prerequisites:** ANTH 1200 *or ANTH 3200 or consent of instructor*.

ANTH 4260 - Human Osteology Laboratory

Units: 3

A laboratory course on the human skeleton. Reconstruction of individual characteristics based on metric, non-metric and statistical analysis. Topics may include analysis of human populations from archaeological contexts, paleodemography, and paleopathology. **Prerequisites:** ANTH 1100 *or consent of instructor*.

ANTH 4280 - Forensic Osteology

Units: 4

Identification and interpretation of human skeletal remains. Includes significant anatomy content designed to build skills in identifying bone fragments. Analysis of identity, trauma, pathology, and bone modification emphasized, especially as relevant to reconstructing events in life and immediately surrounding death. **Prerequisites:** ANTH 1100, BIOL 2010, BIOL 2011, BIOL 2020 *or consent of instructor*. **Co-requisites:** ANTH 4260 *recommended*.

Anthropology: Graduate

ANTH 6100 - Seminar in Biological Anthropology

Units: 4

Critical examination of theoretical developments in paleoanthropology and primatology, with emphasis on evolutionary mechanisms. **Prerequisites:** *Graduate standing and permission of instructor*.

ANTH 6200 - Seminar in Archaeology/Prehistory

Units: 4

Advanced study of methods and theories used in archaeological research, combining discussion of current

archaeological literature and individual analysis of available archaeological data. **Prerequisites:** *Graduate standing and permission of instructor.*

ANTH 6251 - Advanced Archaeological Field Methods

Units: 5

Advanced techniques in surface survey and archaeological excavation, laboratory artifact analysis, and principles of data recording and management. Aspects emphasized will depend on opportunities available.

Repeatability: May be repeated once for credit, for a maximum of 10 units.

ANTH 6260 - Graduate Osteology

Units: 1

Identification and interpretation of human skeletal remains. Provides basic study outline and practical examinations for graduate students. Complements ANTH 4280 and ANTH 4260. **Strongly Recommended:** ANTH 4260. **Grading:** *A-F grading only.*

ANTH 6350 - Advanced Ethnographic Methods

Units: 5

Ethnographic research design; wide range of observation and interview methods, introduction to quantitative description, field notes, research ethics, methods of analysis and representation, relevant software programs, oral and written presentation of original field research.

ANTH 6400 - Seminar in Socio-Cultural Anthropology

Units: 4

A critical examination of traditional and contemporary theories and methods in socio-cultural anthropology, including trends in the various subfields of the discipline. Emphasis on student participation in criticism and synthesis of significant theoretical positions.

ANTH 6700 - Applied Anthropology

Units: 4

Anthropological principles and methods applied to problems of sociocultural change and cross-cultural communication; community based participatory methods and planning; policy analysis; organizational culture, needs assessment, program evaluation, proposal development.

ANTH 6760 - Internship Experience

Units: 4

Applied M.A. track internship in an agency or nongovernmental organization, including personal activity log, mid-internship report, internship completion statement, and oral presentation on internship.

ANTH 6770 - Internship Planning and Analysis

Units: 4

Training in developing, presenting, and evaluating position papers, proposals, work plans; literature searches; ethics and professional development for work outside academia; active involvement in securing appropriate internship and analyzing the internship experience and data.

ANTH 6800 - Seminar in Linguistic Anthropology

Units: 4

Seminal work within the subdisciplines of anthropological linguistics, including examples of its application.

ANTH 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Grading:** *CR/NC grading only.*

ANTH 6900 - Independent Study

Units: 1-4

Independent study in anthropology with concentration on a specific problem under guidance by a faculty sponsor.

ANTH 6905 - Directed Readings in Anthropology

Units: 1-5

Selected readings in consultation with two or more appropriate faculty members in preparation for the Master's Comprehensive Written Examination in two sub-fields of anthropology. The reading list and the exams must be consistent with the student's areas of concentration and approved by the Graduate Advisor.

ANTH 6909 - Departmental Thesis

Units: 1-4

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required.

ANTH 6910 - University Thesis

Units: 1-5

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least two of whom must be members of the Department. Oral defense normally required. (See "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course.

ANTH 6999 - Issues in Anthropology

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in anthropology.

Anthropology: Regional and Ethnographic

ANTH 3500 - North American Indians

Units: 4

Native peoples and cultures of present-day United States and Canada.

ANTH 3505 - Indians of California

Units: 4

Habitat, economy, society, arts, and beliefs of the native populations of California.

ANTH 3510 - South American

Units: 4

Peoples and cultures of South America from contact times to the present. Ecological adaptations, socioeconomic organization, kinship, religion, and culture change.

ANTH 3545 - China

Units: 4

Cultural patterns, religion, social structure, ecological setting and regional variations of China, Taiwan and Hong Kong; their traditional, present and future role in the world.

ANTH 3555 - Cultures of East Asia

Units: 4

Anthropological perspectives on East Asia, including China, Japan, and Korea. Cultural sharing (e.g., Confucianism, Buddhism) and cultural differences, with focus on religion, social structure, ecology, and contemporary issues.

ANTH 3580 - Middle East

Units: 4

An exploration of the regional diversity of people and social institutions of the Middle East in order to understand the complexities of current social issues.

Anthropology: Sociocultural

ANTH 3400 - Social Anthropology

Units: 4

Structural-functional approach to the comparative study of human institutions, with emphasis on changing kinship, family, and social structure in various regions of the world. Critical analysis of major ethnographic works and substantial writing required. **Prerequisites:** ANTH 1300 *or consent of instructor.*

ANTH 3410 - Folklore

Units: 4

Introduction to and survey of oral literature, e.g., folktales, myths, legends, proverbs, riddles, etc., especially among non-literate peoples; methods and theories of folklore analysis and the use of folklore in studies of diffusion, social functions, world view, and religion.

ANTH 4310 - Field Course in Ethnography

Units: 5

Securing, recording, ordering, and analysis of cultural data; problems of participant observation and eliciting information from informants; methods of data collection. Field work all day Saturday or two afternoons per week. **Prerequisites:** *One course in ANTH 1300 or ANTH 3400 or ANTH 3500 series.*

ANTH 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

ANTH 4910 - Pro-Seminar in Anthropology

Units: 4

Seminar in history and philosophy of anthropological thought: its place among the sciences and the humanities, schools of thought and the respective contributions of eminent anthropologists. **Prerequisites:** *Senior standing, completion of three upper division anthropology courses or consent of instructor.*

Anthropology: Symbolic and Religious

ANTH 3800 - Language and Culture

Units: 4

The structured nature of language, linguistic classification, and the relationship of language, thought and reality viewed through the perspective of linguistic relativity.

ANTH 3801 - Language in the Modern World

Units: 4

Language in a global era viewed from a socio-historical perspective: the spread of a few major languages and increasing multilingualism; the extinction of many smaller languages; the rise of English as the first world language resulting in new varieties of English.

ANTH 3840 - Folk Religion and Magic

Units: 4

Cross-cultural comparison of the origins, development and social functions of magical, witchcraft and religious beliefs and behavior, including relevant aspects of symbolism, ritual, ceremony, spirit possession, exorcism, divination, pilgrimage, renunciation and revivalistic cult movements.

Art

ART 3999 - Issues in Art

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in art. **Repeatability:** May be repeated for credit when content varies, for a maximum of 48 units.

ART 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Art: History

ART 1010 - Introduction to World Art History

Units: 4

An examination of style in the visual arts and factors which influence the nature of art in selected salient periods of art history. **Credit Restrictions:** Not open to students with credit for ART 1011.

ART 1081 - History of Animation

Units: 4

Survey of historical developments, styles, techniques, theory and criticism of animation as an art form.

ART 1085 - History of Games

Units: 4

Survey of the history of games from playground to screen; examining games and organized play as culture and art form.

ART 3010 - Latin American Art

Units: 4

Art and architecture of Latin America from the conquest and colonial period to the present, including art of Mexico, Central America and South America. Field trips may be required.

ART 3035 - Modern Art

Units: 4

Main topics of European art of the Modern period from the nineteenth century to the middle of the twentieth century including Impressionism, Cubism, and Surrealism.

ART 3040 - Art in the United States

Units: 4

The development of art in the United States from the colonial period to the present. Individual visits to museums required.

ART 3085 - Theory of Games

Units: 4

In-depth examination of the theory and practice of games from the perspectives of narratology and ludology.

ART 3227 - Women in Art

Units: 4

Women artists and images of women's art, including history from ancient periods to the present. Individual museum and/or field trips may be required.

ART 3230 - Art and Philosophy of the East

Units: 4

(See PHIL 3230 for course description.)

ART 3400 - History of Art and Technology

Units: 4

How the interaction of art and technology shaped human culture from cave paintings to computers. Priority given to Art majors and minors.

ART 3411 - Advanced Survey of World Art

Units: 4

Survey of major theories of Western Art, Tribal Art, and Non-Western Art. Shamanism and Goddess worship and ending with postmodernism. Field trips may be required. Priority given to Art Majors and Minors.

ART 4005 - Histories of Film

Units: 4

A thematic approach to film that analyzes the subject's history, innovative visual strategies, content and cultural context. Themes may vary and may include world cinema, past visions of the future, Hollywood/Bollywood, existentialism, spiritual representations, war, etc. **Cross-listed:** COMM 4005.

Repeatability: May be repeated once for credit with consent of instructor and when content varies, for a maximum of 8 units.

ART 4020 - Shamanism and Art: A Cross-Cultural Perspective

Units: 4

The relationship between the practice of shamanism and art from around the world. Artworks from North American Indian, Oceanic, Siberian, Aboriginal, Huichol and African cultures as well as those from Indonesia, China and Tibet. The practice of shamanic techniques by modern artists.

ART 4060 - History of Graphic Design

Units: 4

The development and evolution of graphic design including its relationship to culture, influential artists, designers and studios. Field trips may be required. Priority given to Art majors and minors.

ART 4070 - Currents in New Media

Units: 4

Contemporary artistic developments in new media including artists, aesthetic trends, materials, and methods. Field trips may be required. Priority given to Art majors and minors.

ART 4071 - Contemporary Art

Units: 4

The most recent developments in art from WW II to the present with an emphasis on post-modernism. Individual study visits to museums and/or field trips required.

ART 4620 - History of Photography

Units: 4

(See COMM 4620 for course description.)

ART 4621 - History of Photography Since 1960

Units: 4

Survey of the cultural issues and aesthetic developments in photography since 1960, with emphasis on fine art photography. Field trips may be required.

ART 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Art: Studio

ART 1020 - The Creative Process

Units: 4

Studio practice emphasizing creativity and imagination in the realization of works of visual art. Field trips may be required.

ART 1112 - Ceramics I

Units: 4

Introduction to the basic techniques of construction with clay, including basic throwing and glazing techniques. Field trips may be required.

ART 1113 - Drawing I

Units: 4

Introduces varied approaches to drawing and use of materials. Projects increase perceptual and imaginative abilities. Instruction in using line, shape, and illusion of form to translate/interpret what you see or how you respond. Field trips may be required.

ART 1114 - Painting I

Units: 4

Provides introductory experiences in making images and using painting materials. Slides, reproductions and demonstrations accompany lectures. Projects and discussions develop students' understanding of how painting can communicate our experience and imagination. Field trips may be required.

ART 1115 - Printmaking I

Units: 4

An introduction to a major graphic process (such as Intaglio, Monoprint/Monotype, or Relief printing), and its history. Field trips may be required. **Repeatability:** May be repeated for credit with consent of instructor and when content varies, for a maximum of 12 units.

ART 1116 - Introduction to Sculpture

Units: 4

An introduction to creating art in a 3-dimensional space, using a variety of materials for fabrication and casting. Field trips may be required.

ART 1121 - Introduction to Bookmaking

Units: 4

Introduction to creating art in book form and to the history of artists' books. Basic binding and printing techniques. Field trips may be required.

ART 2025 - Basics of New Media

Units: 4

Computer as a creative tool in design of digital imagery and artwork through bitmap and vector based software. **Prerequisites:** *Declared Art major/minor or department permission.*

ART 2146 - Storyboarding

Units: 4

Traditional and digital drawing techniques and concepts in storyboarding. **Prerequisites:** ART 1113. *Four hrs. act.*

ART 2630 - Digital Photography I

Units: 4

Using digital cameras to explore fundamental principles of image making, composition, color theory, color management, lighting, and image processing with Photoshop and ink jet printing. Students are required to provide their own digital camera.

ART 2701 - Black and White Photography

Units: 4

Fundamental theory and practice of black and white photography with emphasis on darkroom printing and developing. 35 mm camera recommended. Cross-listed COMM 2701. Not open to students with credit for COMM/ART 2700. Two hrs. lect., 4 hrs. act.

Please Note: This course is inactive. Consult with the Department for substitution.

ART 2702 - Black and White Photography II

Units: 4

Advanced black and white darkroom techniques, including split filter and fiber paper printing, toning, and solarization; use of black and white film with medium format cameras. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

ART 2805 - Computers and Print

Units: 4

Printing as graphic impression - composition, inking, registration, paper surfaces; relation to contemporary digital graphic reproduction. Field trips may be required.

ART 2810 - Principles of Design

Units: 4

Foundations of graphic design - composition, color, image, type; uses in the communication of meaning.

Prerequisites: ART 2025 and ART 2630.

ART 2830 - Web Design

Units: 4

Design principles, web standards, and interactive multimedia for visual content on the Web. **Prerequisites:**

ART 2025 and ART 2630.

ART 2851 - Introduction to Game Design and Scripting

Units: 4

Introduction to scripting languages, problem solving, and design patterns. Foundational concepts for traditional and interactive game creation. **Prerequisites:** ART 2025 and ART 2630.

ART 3121 - Advanced Bookmaking

Units: 4

Advanced techniques, including printing and binding techniques, for creating art in book form.

Production of at least one finished book. Field trips may be required. **Prerequisites:** ART 1121 *or permission of the instructor.* **Repeatability:** May be repeated two times for credit, for a maximum of 12 units.

ART 3141 - Drawing II

Units: 4

Concepts and techniques of drawing, including studies from life. Emphasis on individual expression in various drawing media. Field trips may be required. **Prerequisites:** ART 1113. **Repeatability:** May be repeated once for credit for a maximum of 8 units.

ART 3142 - Figure Drawing

Units: 4

Principles of figure drawing. Field trips may be required. **Prerequisites:** ART 1113. **Repeatability:** May be repeated twice for credit with consent of instructor, for a maximum of 12 units.

ART 3144 - Drawing Lab

Units: 2

Concepts and techniques of drawing. Three dimensional form, time-based narratives, and hand-generated visualization of ideas for the development of graphic concepts. **Prerequisites:** ART 1113 and ART 2025.

Repeatability: May be repeated for credit, for a maximum of 6 units.

ART 3145 - Illustration

Units: 4

Traditional and digital drawing techniques and concepts for multimedia, graphic design, and graphic novel applications. **Prerequisites:** ART 1113. **Repeatability:** May be repeated three times for credit, for a maximum of 16 units.

ART 3212 - Painting II

Units: 4

Emphasis on individual expression and critical analysis. Field trips may be required. **Prerequisites:** ART 1114. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

ART 3213 - Painting III

Units: 4

Advanced study in painting. Individual project with selected media. Field trips may be required. **Prerequisites:** ART 3212. **Repeatability:** May be repeated for credit with consent of instructor and when content varies, for a maximum of 48 units.

ART 3215 - Figure Painting

Units: 2

Principles of figure painting, including use of two dimensional mixed media. Individual project with selected media. Field trips may be required. **Prerequisites:** ART 1113, ART 1114. **Repeatability:** May be repeated two times for credit with consent of instructor, for a maximum of 6 units.

ART 3316 - Advanced Sculpture

Units: 4

Developing and building on previously acquired skills in order to achieve mastery of the materials. Planning, designing, and creating sophisticated and complex sculptural work that address significant issues in the artistic arena. **Repeatability:** May be repeated six times for credit with consent of instructor and when content varies, for a maximum of 28 units.

ART 3317 - Workshop in Spatial Arts

Units: 4

Focus on a particular medium, e.g. bronze, clay, steel, stone, mixed media, etc. **Repeatability:** May be repeated for credit when content varies, for a maximum of 48 units.

ART 3330 - Electronics for Sculpture

Units: 4

Learning the fundamentals of light and sound as art forms in 3-dimensional space using electricity, analog and digital electronics, electro-luminescent media, and sound synthesis.

ART 3340 - Mixed Media Assemblage

Units: 4

Integrating found objects and media into artworks in 3-dimensional space. Advanced mold-making and experimental materials. Discussion of reproduction and simulation in contemporary art.

ART 3420 - Selected Topics in Studio Art

Units: 2

Intensive study of a particular art practice, its concepts and techniques. **Prerequisites:** *Declared Art major/minor or consent of instructor.* **Repeatability:** May be repeated for credit when content varies, for a maximum of 24 units.

ART 3430 - Junior/Senior Seminar

Units: 2

Develops students' personal sense of aesthetics through selected reading, writing and discussion. In-depth critiques of student artwork. **Prerequisites:** *Declared Art major/minor.* **Repeatability:** May be repeated two times for credit with consent of instructor, for a maximum of 6 units.

ART 3440 - Visual Literacy

Units: 2

Slide lectures, writing, and discussion for the purpose of understanding the tools of visual communication and responding clearly in oral and written formats. **Repeatability:** May be repeated three times for credit, when content differs, for a maximum of 8 units.

ART 3512 - Ceramics II

Units: 4

Concentration on the techniques of throwing, glazing, kiln work, and related topics. Field trips may be required. **Prerequisites:** ART 1112. **Repeatability:** May be repeated two times for credit with consent of instructor, for a maximum of 12 units.

ART 3513 - Ceramics III

Units: 4

Emphasis on personal direction in ceramics. Field trips may be required. **Prerequisites:** ART 3512. **Repeatability:** May be repeated for credit with consent of instructor and when content varies, for a maximum of 48 units.

ART 3600 - Digital Photography II

Units: 4

Advanced digital camera, digital darkroom and ink jet printing techniques. Photography as a visual

language and the aesthetics of photographic images. **Prerequisites:** ART 2630 *or consent of instructor*.
Cross-listed: COMM 3600.

ART 3620 - Alternative Processes in Photography

Units: 4

Experimental and alternative photographic methods, including cyanotype, platinum-palladium, bromoil, gum bichromate, and other historical processes. **Prerequisites:** ART 2630 *or consent of instructor*.

Repeatability: May be repeated once for credit, for a maximum of 8 units.

ART 3630 - Digital Photography III

Units: 4

Advanced digital imaging techniques and the use of photography as a fine art and visual language. Field trips may be required. **Prerequisites:** ART 3600/COMM 3600 *or consent of instructor*. **Cross-listed:** COMM 3630.

ART 3640 - Special Topic in Photography

Units: 4

Intensive study of a particular photography practice with fine art or commercial applications.

Prerequisites: ART 2630 *or consent of instructor*. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

ART 3654 - Landscape Photography

Units: 4

Introduction to landscape photography and its techniques using digital, 35mm, and large format cameras. Field trips may be required. **Prerequisites:** ART 2630

ART 3655 - Advanced Landscape Photography

Units: 4

Advanced practice in landscape photography through photographic field trips. **Prerequisites:** ART 3654.

Repeatability: May be repeated two times for credit, for a maximum of 12 units.

ART 3660 - Portrait Photography

Units: 4

A studio workshop approach to portrait photography. Various types of lighting such as flood, electronic flash, and natural. History of portraiture and contemporary vision. Field trips may be required.

Prerequisites: ART 2630. **Cross-listed:** COMM 3660.

ART 3661 - Advanced Portrait Photography

Units: 4

Advanced portrait and studio techniques for commercial and fine art applications; portfolio development.

Prerequisites: ART 3660/COMM 3660 *or consent of instructor.*

ART 3670 - Introduction to Studio Lighting

Units: 4

Introduction to studio lighting using quartz and other hot light sources. Use of digital cameras and view cameras in the creation of commercial-quality product photography for print and the web. Field trips may be required. **Prerequisites:** ART 2630. **Cross-listed:** COMM 3670.

ART 3671 - Advanced Studio Lighting

Units: 4

The use of electronic strobe lights in a studio lighting situation to create commercial product and portrait photography. Use of view camera and medium format camera will be emphasized. **Prerequisites:** ART 3670. **Cross-listed:** COMM 3671. **Repeatability:** May be repeated for credit when content varies, for a maximum of 48 units.

ART 3680 - Photography Career Preparation

Units: 4

Fine art and professional photography career preparation. Topics include resume creation, gallery and museum interactions, commercial photography practices and apprenticeship programs, and general business practices for photographers. Field trips may be required. **Cross-listed:** COMM 3680.

ART 3800 - Animation

Units: 4

Imaginative, computer-based animation, theories of movement and methods of storytelling for time-based narratives. **Prerequisites:** ART 3400, ART 3830, and ART 3870.

ART 3810 - Graphic Design I

Units: 4

Development of techniques that reflect real world needs for communicating graphical messages.

Prerequisites: ART 2805, ART 3400, ART 3830, and ART 3870.

ART 3815 - Typography

Units: 4

Fundamentals and history of letterforms in art and design. Field trips may be required. **Prerequisites:** ART 2805, ART 3400, ART 3830, and ART 3870.

ART 3820 - Digital Video

Units: 4

Video and audio for multimedia production. Projects using storyboards, cameras, lighting, audio technology, video digitizing, editing software. **Prerequisites:** ART 3400, ART 3830, and ART 3870.

ART 3825 - Motion Graphics

Units: 4

Using motion and timing to create graphic and typographic animation for video, interactive media and Web distribution. **Prerequisites:** ART 3820 and ART 3800.

ART 3828 - Advanced Digital Video

Units: 4

Advanced topics in digital video production for multimedia. Video technology including formats, compression, and specifications. Motion graphics and integrating animation from non-video sources, optimizing video for the distribution channel, and interactive video. **Prerequisites:** ART 3825.

ART 3830 - Digital Imaging

Units: 4

Computers, scanners, digital cameras and drawing tablets to produce imaginative pictures for screen and print. **Prerequisites:** ART 2810 and ART 2830.

ART 3851 - Game Design and Scripting

Units: 4

Intermediate scripting languages, problem solving, and design patterns. Intermediate concepts for traditional and interactive game creation. **Prerequisites:** ART 3830 and ART 2851.

ART 3855 - Graphic Design II

Units: 4

Advanced applied design skills using grids, color, images, typographic detail, aesthetics, and extended design systems. Field trips may be required. **Prerequisites:** ART 3810 and ART 3815.

ART 3860 - Production Design for Print and Screen

Units: 4

Integration of software and hardware techniques and design production considerations, to create and deliver successful content for mass production. **Prerequisites:** ART 3810 and ART 3815.

ART 3870 - Web Authoring

Units: 4

Advanced use of scripting techniques to create interactive Web sites. **Prerequisites:** ART 2810 and ART

2830. **Repeatability:** May be repeated once for credit with consent of instructor and when content varies, for a maximum of 8 units.

ART 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity.*

Repeatability: May be repeated for credit, for a maximum of 8 units, which may be applied to the major or the minor in Art.

ART 4143 - Advanced Drawing

Units: 4

Emphasis on individual expression using traditional two-dimensional drawing media integrated with new and mixed media. Field trips may be required. **Prerequisites:** ART 3141. **Repeatability:** May be repeated two times for credit with consent of instructor and when content varies, for a maximum of 12 units.

ART 4200 - Interactive Authoring

Units: 4

Scripting languages, audio, video, animation and graphics to build interactive environments.

Prerequisites: ART 3800 *and* ART 3820. **Repeatability:** May be repeated once for credit with consent of instructor and when content varies, for a maximum of 8 units.

ART 4220 - Multimedia Senior Project

Units: 4

Students produce a personal body of interactive media reflecting understanding of design skills and processes that parallel professional methods. **Prerequisites:** ART 3825 *and* ART 4200. **Repeatability:** May be repeated once for credit with consent of instructor and when content varies, for a maximum of 8 units.

ART 4230 - Graphic Design Senior Project

Units: 4

Students produce a personal body of graphics reflecting understanding of design skills and processes that parallel professional methods. **Prerequisites:** ART 3855 *and* ART 3860. **Repeatability:** May be repeated once for credit with consent of instructor and when content varies, for a maximum of 8 units.

ART 4370 - Human and Machine Performance

Units: 4

Performance as an artistic form. Integration of human and mechanical actions using microprocessor programming, robotics, and costume construction. Discussion of audience, body art, and cyborg theory.

Prerequisites: ART 3370.

ART 4600 - Image and Idea

Units: 4

The development of each student's technical skill and personal vision. Documentary and fine art photography. **Prerequisites:** ART 3600/COMM 3600. **Cross-listed:** COMM 4600. **Repeatability:** May be repeated two times for credit, for a maximum of 12 units.

ART 4645 - Creative Photography

Units: 4

Students work on individual photography projects with the goal of further developing their skills and personal direction. **Prerequisites:** ART 4600/COMM 4600 *or consent of instructor*. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

ART 4710 - Senior Thesis

Units: 2

Senior exhibit of art works in appropriate department spaces. Part of a series of capstone senior courses.

ART 4720 - Senior Seminar

Units: 2

Development of students' written and verbal communication skills for the purpose of presenting themselves and their work.

ART 4730 - Senior Portfolio

Units: 2

Senior portfolio production and presentation for career oriented goals. Faculty participation in reviews of portfolios.

ART 4740 - Professional Practices

Units: 4

Contemporary professional practices in electronic arts. Students investigate venues for electronic artists, contexts for their own work, and produce a professional portfolio. **Prerequisites:** ART 3855 *and* ART 3860 *or* ART 3825 *and* ART 4200.

ART 4745 - Senior Project in Photography

Units: 4

Students work on individual photography projects with the goal of producing a body of work to be shown in a gallery for their senior thesis. **Prerequisites:** ART 4600/COMM 4600. **Credit Restrictions:** Not open to students with credit for ART 4235.

ART 4857 - Advanced Printmaking

Units: 4

Studies in printmaking to clarify the student's direction as an artist. Field trips may be required.

Prerequisites: *Upper division standing.* **Repeatability:** May be repeated for credit with consent of instructor and when content varies, for a maximum of 48 units.

ART 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Biological Science

BIOL 1000 - Basic Concepts in Biology

Units: 5

Plants, animals and microorganisms and the modern biological concepts that apply to their structure and function on cellular, organismal, population, and ecosystem levels. Special emphasis on humans and their relationships with other living things. **Credit Restrictions:** Not for biology major or minor credit.

BIOL 1001 - Introduction to Biology

Units: 4

Plants, animals and microorganisms and the modern biological concepts that apply to their structure and function on cellular, organismal, population, and ecosystem levels. Special emphasis on humans and their relationships with other living things. **Strongly Recommended:** concurrent enrollment in lab, BIOL 1002.

Credit Restrictions: Not open to students with credit for BIOL 1005 or BIOL 1007; Not for biology major or minor credit.

BIOL 1002 - Introduction to Biology Lab

Units: 1

Laboratory exposure to biological phenomena including microscope activities of cells, osmosis, diffusion, human nutrition, human genetics, plant growth, classification of plants and animals, fertilization and development, natural selection simulation, field ecology and ecosystems. **Prerequisites:** BIOL 1001 (or one of BIOL 1005, or BIOL 1007) **Co-requisites:** BIOL 1001 (or one of BIOL 1005, or BIOL 1007)

Credit Restrictions: Not open to students with credit for BIOL 1004, or 2005; Not for biology major or minor credit.

BIOL 1005 - How Things Work: The Human Body

Units: 4

A conceptual look at how important systems work, what they mean in an everyday way, and how they all

fit together in one working unit...the human body. **Credit Restrictions:** Not open to students with credit for BIOL 1001 or BIOL 1007; Not for biology major or minor credit.

BIOL 1007 - Human Biology

Units: 4

Human organisms, with emphasis placed on human structure and function; examination of relationships with the environment, including plants, animals, and microorganisms. **Credit Restrictions:** Not open to students with credit for BIOL 1001 or BIOL 1005; Not for biology major or minor credit.

BIOL 1020 - Ecology and the Environment

Units: 4

Introduction to ecology of individuals, populations, communities, and ecosystems; interactions of organisms with their environment. Case studies of environmental issues that impact the ecology of organisms.

BIOL 1401 - Molecular and Cellular Biology

Units: 5

Introduction to molecular and cellular biology with emphasis on the integration of structure and function in the living cell as a biological system; cellular aspects of inheritance.

BIOL 1402 - Plant Biology

Units: 5

An introduction to plant biology with emphasis on relationship of structure and function in plants, principles of classification and ecology, and a brief survey of the plant kingdom, including evolutionary relationships. **Prerequisites:** BIOL 1401 *or consent of instructor.*

BIOL 1403 - Animal Biology

Units: 5

An introduction to animal biology with emphasis on relationship of structure and function in animals, principles of classification and ecology, and a brief survey of the animal kingdom, including evolutionary relationships. **Prerequisites:** BIOL 1401 *and* BIOL 1402 *or consent of instructor.*

BIOL 2010 - Human Physiology and Anatomy I

Units: 5

An integrated approach to essential concepts of human physiology and anatomy. Analysis of skeletal, muscular, sensorimotor, cardiovascular and respiratory systems. **Strongly Recommended:** High school biology and chemistry, or BIOL 1001 (or BIOL 1005) and BIOL 1002; CHEM 1100 or CHEM 1601 (or CHEM 1605). **Credit Restrictions:** Not open to students with credit for BIOL 2011; Not for Biology B.S. degree credit.

BIOL 2011 - Anatomy and Physiology I

Units: 5

An integrated approach to health through the essential concepts of human physiology and anatomy. Analysis of skeletal, muscular, sensorimotor, cardiovascular and respiratory systems. **Strongly Recommended:** High school biology and chemistry, or BIOL 1001 (or BIOL 1005) and BIOL 1002 (or BIOL 1005); CHEM 1100 or CHEM 1601 (or CHEM 1605). **Credit Restrictions:** Not open to students with credit for BIOL 2010; Not for Biology B.S. degree credit.

BIOL 2020 - Human Physiology and Anatomy II

Units: 5

An integrated analysis of physiology and anatomy of the integumentary, autonomic and central nervous, endocrine, urinary and reproductive systems and of the blood and special senses. Coverage of histology, metabolism, and thermoregulation. **Prerequisites:** BIOL 2010 (or BIOL 2011) or equivalent and CHEM 1100 (may be taken concurrently). **Credit Restrictions:** Not open to students with credit for BIOL 2021; Not for Biology B.S. degree credit.

BIOL 2021 - Anatomy and Physiology II

Units: 5

An integrated analysis of human physiology and anatomy of the integumentary, autonomic and central nervous, endocrine, urinary and reproductive systems and of the blood and special senses. Coverage of histology, metabolism, and thermoregulation. **Co-requisites:** BIOL 2010 (or BIOL 2011) or equivalent and CHEM 1100 (may be taken concurrently), or consent of instructor. **Credit Restrictions:** Not open to students with credit for BIOL 2020; Not for Biology B.S. degree credit.

BIOL 2025 - Introduction to Microbiology

Units: 5

The nature and activities of beneficial and harmful microorganisms; their role in health, disease, and their natural environment. Laboratory practice in handling microorganisms, including identification and culture techniques. Designed for health sciences and nursing. **Credit Restrictions:** Not open to students with credit for BIOL 3005, BIOL 3405 or BIOL 4010; Not for Biology B.S. degree credit.

BIOL 3011 - Foundational Biology

Units: 4

Lecture component of the Foundational Biology laboratory (BIOL 3012). Focus on the California State Science Standards and designed to prepare pre-service and in-service teachers for the CSET General Science Subtest in Biology with the goal of obtaining a Foundational Science Credential. **Prerequisites:** BIOL 1001 and BIOL 1002, BIOL 1000, high school biology, or equivalent; satisfaction of the Entry Level Mathematics (ELM) requirement. **Credit Restrictions:** Not open to Biology majors.

BIOL 3012 - Foundational Biology Laboratory

Units: 1

Lecture component of the Foundational Biology laboratory (BIOL 3012). Laboratory component of the Foundational Biology lecture (BIOL 3011). Designed to prepare pre-service and in-service teachers for the CSET General Science Subtest in Biology with the goal of obtaining a Foundational Science Credential. **Prerequisites:** BIOL 1001 and BIOL 1002, or BIOL 1000, *high school biology, or equivalent; satisfaction of the Entry Level Mathematics (ELM) requirement.* **Co-requisites:** BIOL 3011. **Credit Restrictions:** Not open to Biology majors.

BIOL 3020 - Genetics, Evolution, and Humanity

Units: 4

Principles of genetics, their application to human problems, and to theories of evolutionary change, including the evolution of humans. **Prerequisites:** BIOL 1001 (or BIOL 1005) and BIOL 1002 or equivalent. **Credit Restrictions:** Not open to students with credit for BIOL 3121; Not for Biology B.S. degree credit.

BIOL 3065 - Humans and Sex

Units: 4

The genetic, hormonal and behavioral basis of sexuality in humans from conception to adulthood; developmental and behavioral variation; enhancement and suppression of fertility; genetic screening. **Credit Restrictions:** Not for Biology B.S. degree credit.

BIOL 3070 - Human Nutrition

Units: 4

Key nutrients, including carbohydrates, lipids, proteins, vitamins, and minerals. Role each plays in human metabolism. Current controversies in nutritional information, including food supplements and claims for prevention of disease. **Prerequisites:** BIOL 1001 (or BIOL 1005) or equivalent. **Credit Restrictions:** Not for Biology B.S. degree credit.

BIOL 3080 - Biology Hands-On Laboratory

Units: 2

Designed to give students the opportunity to work with elementary and middle school students in a science teaching and learning environment. The hands-on lessons provide early teaching experience in science for undergraduates interested in K-8 teaching as a career. GE Area B6, upper division science, is a 4-unit requirement. To complete the requirement, students must take an additional science 3080 course or an additional 4-unit course approved for B6. **Prerequisites:** BIOL 1000, BIOL 1001; consent of instructor required for biology majors.

BIOL 3110 - Principles of Ecology

Units: 4

Relationships within and among populations in various environments; introduction to population

dynamics and species interactions in natural communities and ecosystems; applications to human welfare.

Prerequisites: BIOL 1402, BIOL 1403, MATH 1130 and STAT 3031 or equivalents; BIOL 1401 recommended.

BIOL 3121 - Principles of Genetics

Units: 5

Comprehensive analysis of gene structure, function, and inheritance incorporating classical and molecular-based approaches. Emphasis on the experimental evidence that has led to our current understanding of the nature of the gene, drawing on examples from bacteria to humans. **Prerequisites:** BIOL 1401, BIOL 1402, BIOL 1403 and CHEM 1101 or equivalents. **Credit Restrictions:** Not open to students with credit for BIOL 3020.

BIOL 3122 - Principles of Developmental Genetic Analysis

Units: 4

Continuation of BIOL 3121. Aspects of development from subcellular to organismal phenomena, emphasizing current theories, techniques, and applications of cell biology and molecular genetics. **Prerequisites:** BIOL 1401, BIOL 1402, BIOL 1403, BIOL 3121; CHEM 1101, CHEM 1102, CHEM 1103 or CHEM 1601 (or CHEM 1605), CHEM 1602 or equivalents.

BIOL 3130 - Principles of Evolutionary Biology

Units: 4

A survey of the basic processes involved in the evolution of natural populations. The systematic and phylogenetic implications of evolutionary change will also be considered. **Prerequisites:** BIOL 1401, BIOL 1402, BIOL 1403 and BIOL 3121 or equivalents.

BIOL 3151 - Principles of Animal Physiology

Units: 5

Integrative approach to the principles involved in animal physiology. Covers the nervous, sensory, osmoregulatory, muscular, respiratory, circulatory, digestive, and endocrine systems facilitated by an understanding of the cellular processes governing these systems. **Prerequisites:** BIOL 1401, BIOL 1402, BIOL 1403; CHEM 1101, CHEM 1102, CHEM 1103 or equivalent. **Strongly Recommended:** STAT 3031 or equivalent. **Credit Restrictions:** Not open to students with credit or BIOL 3150.

BIOL 3215 - Marine Biology

Units: 4

The general biology of marine organisms with emphasis on the ecology of local marine communities. **Prerequisites:** BIOL 1402 and BIOL 1403 or equivalents. **Credit Restrictions:** Not open to students with credit for BIOL 3115 or MSC 4103.

BIOL 3216 - Freshwater Environments

Units: 4

Comparisons of freshwater physical and biological environments with their major communities of plants and animals. **Prerequisites:** *Upper-division standing in biology, environmental science, environmental studies, or geology major, or consent of instructor.* **Credit Restrictions:** Not open to students with credit for BIOL 3116.

BIOL 3405 - Microbiology

Units: 6

The general biology of major groups of microorganisms, including their morphology, metabolism, reproduction, genetics and ecology. **Prerequisites:** BIOL 1401, BIOL 1402, BIOL 1403 *or equivalents, organic chemistry.* **Credit Restrictions:** Not open to students with credit for BIOL 2025, 3005 or BIOL 4010.

BIOL 3410 - Epidemiology

Units: 4

Study of the distribution and determinants of disease and health-related aspects in populations. Application of results to the prevention and control of health problems. **Prerequisites:** BIOL 1000 *and* BIOL 2025 *or permission of instructor.*

BIOL 3430 - Hematology

Units: 4

Morphology, function and composition of human blood fluids and cells, both normal and diseased. **Prerequisites:** BIOL 1401 *and* BIOL 1403 *and organic chemistry.*

BIOL 3435 - Principles of Microbiology

Units: 3

A study of microorganisms and their biology with regard to their life cycles, virulence, host interactions, ecology, and control. Focus on mechanisms of human infection and disease. **Prerequisites:** BIOL 1401, BIOL 1402, BIOL 1403, *or equivalents, organic chemistry.* **Credit Restrictions:** Not open for credit to students in the B.S. Microbiology/Biomedical Laboratory Science Option. **Grading:** *A-F grading only.*

BIOL 3441 - Biomedical Parasitology

Units: 4

Study of protozoa and metazoa important in the pathogenesis of human diseases, including pathology, immunology and epidemiology, identification and life cycles. **Prerequisites:** BIOL 1401 *and* BIOL 1403 *or equivalent.* **Credit Restrictions:** Not open to those with credit for BIOL 3440.

BIOL 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-

campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity. No more than a total of four units of BIOL 3898, BIOL 4900, BIOL 6898, or BIOL 6900 or a combination thereof, may be applied to the Biology majors.* **Repeatability:** May be repeated for credit, for a maximum of 8 units, but only up to four units are applicable to the biology major.

BIOL 3999 - Issues in Biological Science

Units: 2-4

Readings, discussion, and research on contemporary and/or significant issues in biological science.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.

BIOL 4010 - Microbes and Humanity

Units: 4

Historical review of microbial organisms, their role in causing disease and beneficial contribution to humanity. **Prerequisites:** BIOL 1001 (or BIOL 1005), and BIOL 1002 or equivalents. *Does not meet Nursing prerequisite requirements. For Liberal Studies, Biology majors (B.A. only), and General Education (Lifelong Understanding).* **Credit Restrictions:** Not open to students with credit for BIOL 2025, 3005 or BIOL 3405.

BIOL 4130 - Biogeography

Units: 4

Study of the distribution of organisms; the evolution and ecology of biomes, their biotas, dispersal, change in range, phylogenetic systematics and islands. **Prerequisites:** BIOL 1402 and BIOL 1403 or equivalents. **Cross-listed:** GEOG 4130.

BIOL 4142 - Microbial Symbioses

Units: 4

Addresses symbiotic associations relevant to human medicine, veterinary sciences and agriculture, with emphasis on interactions that lead to the establishment of stable symbioses of plants, animals, and other microorganisms. **Prerequisites:** BIOL 3405 or consent of instructor. **Grading:** A-F grading only.

BIOL 4143 - Molecular Microbiology

Units: 4

Provides a deeper understanding of the molecular principles underlying basic microbial processes, such as regulation of growth, molecular determination of virulence, and phylogenetic relationships between microorganisms. **Prerequisites:** BIOL 3121, BIOL 3405 or consent of instructor. **Grading:** A-F grading only.

BIOL 4150 - Mammalian Physiology

Units: 4

Mammalian physiological systems with particular emphasis on homeostasis and mechanisms of muscle,

cardiovascular, respiratory, renal, and acid-base physiology. **Prerequisites:** BIOL 2010 (or BIOL 2011) and BIOL 2020; or BIOL 3151; or equivalents.

BIOL 4160 - Medical Physiology

Units: 4

Particular emphasis on human pathophysiology, its etiology, diagnosis, and the physiologic rationale for treatment of multiple system disease, entities, and/or failures. **Prerequisites:** BIOL 2010 (or BIOL 2011) and BIOL 2020, or BIOL 3151 or equivalent, or consent of instructor.

BIOL 4175 - Population Biology

Units: 4

Study of the sizes and distributions of plant and animal populations. Processes affecting reproduction, age structure, density and population fluctuations. Recommended for students interested in ecology, conservation, or environmental biology. **Prerequisites:** BIOL 3110 or equivalent and statistics or consent of instructor.

BIOL 4340 - Environmental Microbiology

Units: 4

Key positions that microorganisms occupy in nature and their effects on global ecosystems; includes bioremediation, disease transmission/public health, biogeochemical cycling, plant-animal-insect-microbe interactions. **Prerequisites:** BIOL 3405.

BIOL 4351 - Biological Conservation

Units: 4

Principles and theories of conservation biology, including biodiversity, extinction, habitat fragmentation, captive-breeding programs, restoration ecology, and the role of humans in western U.S. **Prerequisites:** BIOL 1401, 1402, BIOL 1403, BIOL 3110 or equivalent. **Credit Restrictions:** Not open to students with credit for BIOL 4350, 6350 or BIOL 6351.

BIOL 4355 - Global Change Biology

Units: 4

Understanding the mechanisms by which plants, animals and ecosystems are responding to global change and the links between physical, chemical and biological systems and anthropogenic activities. **Prerequisites:** BIOL 3151 or equivalent or permission of instructor. **Grading:** A-F grading only.

BIOL 4405 - Microbial Physiology and Biochemistry

Units: 4

Emphasis on the study of microbial function and biology required to fully understand microbial growth

relevant to medical and economic importance, including the exploitation of microbial processes for biotechnological advancement. **Prerequisites:** BIOL 3405 and CHEM 3400, or equivalent.

BIOL 4413 - Medical Microbiology

Units: 6

Introduction to medical microbiology using a system-based approach. Microbial basis of infection, host response, antibiotic resistance, prevention and public health measures. **Prerequisites:** BIOL 3405 or consent of instructor. **Credit Restrictions:** Not open to students with credit for BIOL 4411 or 4412. **Grading:** A-F grading only.

BIOL 4420 - Genetics Laboratory

Units: 4

Introduction to genetic analysis including classical experiments with viruses, bacteria and fruit flies. Implementation of genetic variants in DNA technology. **Prerequisites:** BIOL 3121 or equivalent.

BIOL 4425 - Biology of Fungi

Units: 4

Survey of the major lineages of Kingdom Fungi, including classification, evolution, life cycles, ecology, morphology and development, with specific focus on the medical, clinical, economic and cultural applications and significance of this diverse group of organisms. **Prerequisites:** BIOL 1401, BIOL 1402, BIOL 1403, or consent of instructor. **Grading:** A-F grading only.

BIOL 4430 - Immunology

Units: 4

Specific and nonspecific reactions in immunity; manifestations of antigen-antibody reactions, hypersensitivity and transplantation immunity. **Prerequisites:** BIOL 1401, BIOL 1402, BIOL 1403, BIOL 3121; CHEM 2301, CHEM 2302 or CHEM 3301, CHEM 3302, CHEM 3303.

BIOL 4435 - Water Quality and Human Health

Units: 4

Exploration of the connections between water quality and human health. Topics include the influence of waterborne pathogens on human health, detection of microbes in the environment, transmission and fate of health-related microbes, and water quality regulation. **Prerequisites:** BIOL 3405 or consent of instructor. **Grading:** A-F grading only.

BIOL 4441 - Principles of Virology

Units: 4

Survey of the DNA and RNA viruses of bacteria, plants and animals. Focus on the molecular mechanisms of infection and replication, including viruses of biomedical importance such as HIV, subviral particles,

prions and viroids. **Prerequisites:** BIOL 3121. **Credit Restrictions:** Not open to students with credit for BIOL 6441 .

BIOL 4450 - Cell Culture Techniques

Units: 4

Techniques of in vitro culture of primary and established cell lines of multi-cellular origin. Topics include nutrition, growth, cloning, cell fusion, transformation, preservation, karyotyping, autoradiography, metabolic labeling, quality control applications. **Prerequisites:** *Permission of instructor.*

BIOL 4455 - Molecular Cell Biology

Units: 4

In-depth look at molecular aspects of cellular processes; emphasis on experimental evidence of molecular mechanisms responsible for implementation and regulation of gene expression, protein synthesis, membrane transport, intracellular transport, cell signaling, and cell division. **Prerequisites:** BIOL 3121, BIOL 3122, CHEM 3400 *or equivalents.*

BIOL 4456 - Molecular Techniques

Units: 3

Techniques utilized in contemporary experimental cell biology; laboratory studies designed to mimic, in practical fashion, the usual course a researcher takes in examining an experimental question relevant to cell biology. Study will include a broad range of experimental techniques including: polymerase chain reaction (PCR), recombinant DNA construction, advanced genetic analysis, protein detection, isolation and analysis, and microscopy. **Prerequisites:** BIOL 4455. **Co-requisites:** BIOL 4455.

BIOL 4485 - PCR, DNA Sequencing and Fragment Analysis

Units: 4

Laboratory course covering the theory and applications of PCR, DNA sequencing and Fragment Analysis. Topics include DNA sequencing and sequence analysis, genomic PCR, quantitative PCR, RT-PCR, DNA fingerprinting and an individual project. **Prerequisites:** BIOL 1401 *and* BIOL 3121 *or equivalent.*

BIOL 4490 - Bioinformatics

Units: 4

Introduction to Molecular Bioinformatics. Survey of concepts and methods for assembly, comparison, and annotation of DNA sequence data. Analysis of protein structure and function. Phylogenetic analysis, database techniques, and selected molecular biology applications. **Prerequisites:** BIOL 3121 *or equivalent, and consent of instructor.*

BIOL 4500 - Quantitative Methods in Physiology

Units: 2

Quantitative treatment and analysis of physiological data using modern methods including applied statistics, spread sheets, graphical methods and data presentation. **Prerequisites:** BIOL 3151, STAT 3031, *or consent of instructor.* **Credit Restrictions:** Not open to students with credit for BIOL 6500.

BIOL 4504 - Comparative Physiology

Units: 4

Physiology of metabolic, respiratory, circulatory, excretory, muscle, and nervous systems of vertebrate and invertebrate animals with an emphasis on physiological diversity and adaptation. **Prerequisites:** BIOL 3151 *or consent of instructor.* **Credit Restrictions:** Not open to students with credit for BIOL 6504.

BIOL 4505 - General Endocrinology

Units: 4

Anatomy, physiology, and biochemistry of the endocrine system in vertebrate and invertebrate organisms. **Prerequisites:** BIOL 3150.

BIOL 4506 - Animal Physiology Laboratory

Units: 3

The examination of regulatory mechanisms of animal organ systems using controlled laboratory experiments, with an emphasis on experimental design and data analysis. May be taken concurrently or following BIOL 4504 (Comparative Physiology) or BIOL 4516 (Environmental Animal Physiology). **Prerequisites:** BIOL 3151 *or equivalent, or consent of instructor.* **Credit Restrictions:** Not open to students with credit for BIOL 6506.

BIOL 4510 - Neurobiology

Units: 4

The structure and function of the vertebrate and invertebrate nervous system with emphasis on the principles of communication, control, and sensorimotor responses. Survey of concepts of neurochemistry, feedback, bionic models, and higher brain processes. **Prerequisites:** BIOL 3151 *or* BIOL 2010 (*or* BIOL 2011), BIOL 2020 *or consent of instructor.* **Credit Restrictions:** Not open to students with credit for BIOL 6515.

BIOL 4512 - Applied Neurobiology

Units: 4

Basic principles of neurobiology demonstrated using laboratory experiments that include intracellular and extracellular nerve recording, membrane potentials, action potentials, sensory and motor neural processing, nerve tracing, and histology. **Prerequisites:** BIOL 4510 *or consent of instructor.*

BIOL 4513 - Animal Senses

Units: 4

Survey of how animals use remarkable sensory abilities to communicate, navigate, and detect prey, predators and mates. We will focus on extreme and unusual sensory systems such as echolocation, electroreception, and magnetoreception, as well as vision, smell, touch, and hearing. **Prerequisites:** BIOL 3151 *or permission of instructor.*

BIOL 4516 - Environmental Animal Physiology

Units: 4

An examination of the physiological adaptations that animals use to cope with their environments, emphasizing the physiological responses of species to extreme environments. **Prerequisites:** BIOL 3151 *or equivalent, or consent of instructor.* **Credit Restrictions:** Not open to students with credit for BIOL 6516.

BIOL 4517 - Environmental Toxicology

Units: 4

Exploration of the physiological effects of exposure to environmental toxicants in animals, from the subcellular to organismal levels. Concepts covered include routes of exposure, modes of action, and metabolism, as well as how toxicants are monitored and regulated. **Prerequisites:** BIOL 3151, CHEM 4411, *or equivalents, or consent of instructor.* **Grading:** A-F grading only.

BIOL 4518 - Animal Behavior

Units: 4

Behavior patterns of animals; sensory adaptations, perception, orientation, imprinting instinct and learning, social and reproductive behavior; communication; emphasis on evolutionary relations.

Prerequisites: BIOL 1401, BIOL 1402, BIOL 1403 *or equivalents.*

BIOL 4525 - Neural Development

Units: 4

Survey of various aspects of vertebrate and invertebrate neural development including neurogenesis, neuron polarity, axon/dendrite guidance, target selection and synapse formation. **Prerequisites:** BIOL 3121 *or consent of instructor.* **Grading:** A-F grading only.

BIOL 4530 - Ecological Methods

Units: 4

Methods of design and analysis of ecological studies, including sampling techniques, field and laboratory measurements, and computer-aided data analysis including introductory modeling. Recommended for students interested in advanced study in ecology or conservation or environmental biology. **Prerequisites:** BIOL 1401, BIOL 1402, BIOL 1403 *or equivalents, and BIOL 3110. Recommended statistics course.*

BIOL 4583 - Vertebrate Biology

Units: 4

Overview of vertebrate origins, phylogeny, structural and functional adaptations, behavior, and ecology.

Prerequisites: BIOL 1401, BIOL 1402, BIOL 1403.

BIOL 4820 - Biology Seminar

Units: 1

Guest speakers describe their biological research and develop a dialogue between faculty and students.

Prerequisites: *One course in biology. Not for credit toward G.E.-Breadth Requirements.* **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

BIOL 4830 - Seminar in Forensic Research

Units: 1

Seminar on biological aspects of forensic research. Current issues in forensic science based on biological concerns.

BIOL 4900 - Independent Study

Units: 1-4

Individual projects or limited reading for students competent to assume individual work. Admission requires approval of professor and department chair. **Repeatability:** May be repeated for credit with consent of instructor, for a maximum of 12 units. No more than a total of 4 units of BIOL 3898, 4900, BIOL 6898, or BIOL 6900 or a combination thereof, may be applied to the Biology majors.

Biological Science: Graduate

BIOL 6120 - Environmental Experimental Analysis

Units: 4

Advanced applications of graphic modeling, experimental design, direct and remote monitoring, and modern statistical analyses of ecological/physiological experiments. **Prerequisites:** *Graduate standing in biology or consent of instructor.*

BIOL 6141 - Advanced Molecular Techniques

Units: 4

A laboratory course covering the theory, practice and application of advanced techniques in molecular biology through guided research projects and discussions of the primary literature. Techniques include current methods in recombinant DNA construction, nucleic acid isolation and gene expression analysis.

BIOL 6142 - Microbial Symbioses

Units: 4

Addresses symbiotic associations relevant to human medicine, veterinary sciences and agriculture, with

emphasis on interactions that lead to the establishment of stable symbioses of plants, animals, and other microorganisms. **Grading:** *A-F grading only.*

BIOL 6143 - Molecular Microbiology

Units: 4

Provides a deeper understanding of the molecular principles underlying basic microbial processes, such as regulation of growth, molecular determination of virulence, and phylogenetic relationships between microorganisms. **Grading:** *A-F grading only.*

BIOL 6147 - Functional Genomics

Units: 4

Laboratory course covering genome-wide analysis of gene function, including data-mining, mutant analysis, and expression profiling; discussion of original literature.

BIOL 6151 - Cell and Molecular Biology I

Units: 5

The cellular and molecular biology of eucaryote cells emphasizing membrane structure and function, structure of genetic material, control of gene expression, and protein synthesis, cell division and differentiation.

BIOL 6152 - Cell and Molecular Biology II

Units: 5

The cellular and molecular biology of eucaryote cells emphasizing membrane structure and function, structure of genetic material, control of gene expression, and protein synthesis, cell division and differentiation.

BIOL 6175 - Population Biology

Units: 4

Study of the sizes and distributions of plant and animal populations. Processes affecting reproduction, age structure, density and population fluctuations. Recommended for students interested in ecology, conservation, or environmental biology. Required project, designed, implemented and analyzed by student. **Credit Restrictions:** Not open to students with credit for BIOL 4175.

BIOL 6180 - Estuarine Wetlands Ecology

Units: 4

Advanced applications of modern ecological research in bay shore environments. Emphasis on field experimentation along vertical and horizontal estuarine gradients of both physical and biotic factors, particularly salinity, desiccation, predation, and competition for various resources.

BIOL 6180 - Estuarine Wetlands Ecology

Units: 4

Advanced applications of modern ecological research in bay shore environments. Emphasis on field experimentation along vertical and horizontal estuarine gradients of both physical and biotic factors, particularly salinity, desiccation, predation, and competition for various resources. **Prerequisites:** BIOL 3110 and post-baccalaureate standing.

BIOL 6340 - Environmental Microbiology

Units: 4

Key positions that microorganisms occupy in nature and their effects on global ecosystems; includes bioremediation, disease transmission/public health, biogeochemical cycling, plant-animal-insect-microbe interactions. Required project, designed, implemented and analyzed by student. **Credit Restrictions:** Not open to students with credit for BIOL 4340.

BIOL 6351 - Biological Conservation

Units: 4

Principles and theories of conservation biology, including biodiversity, extinction, habitat fragmentation, captive-breeding programs, restoration ecology, and the role of humans in western U.S. **Prerequisites:** BIOL 1401, 1402, 1403, 3110 or equivalent. **Credit Restrictions:** Not open to students with credit for BIOL 4350, 4351, or 6350. **Grading:** A-F grading only.

BIOL 6355 - Global Change Biology

Units: 4

Understanding the mechanisms by which plants, animals and ecosystems are responding to global change and the links between physical, chemical and biological systems and anthropogenic activities. Required project, designed, implemented, and analyzed by student. **Credit Restrictions:** Not open to students with credit for BIOL 4355. **Grading:** A-F grading only.

BIOL 6405 - Microbial Physiology and Biochemistry

Units: 4

Emphasis on the study of microbial function and biology required to fully understand microbial growth relevant to medical and economic importance, including the exploitation of microbial processes for biotechnological advancement. Graduate project required. **Credit Restrictions:** Not open to those with credit for BIOL 4405.

BIOL 6435 - Water Quality and Human Health

Units: 4

Exploration of the connections between water quality and human health. Topics include the influence of

waterborne pathogens on human health, detection of microbes in the environment, transmission and fate of health-related microbes, and water quality regulation. **Grading:** *A-F grading only.*

BIOL 6441 - Principles of Virology

Units: 4

Survey of the DNA and RNA viruses of bacteria, plants and animals. Focus on the molecular mechanisms of infection and replication, including viruses of biomedical importance such as HIV, subviral particles, prions and viroids. This is a tiered course (with BIOL 4441) in which students will be required to complete an advanced virology project. **Credit Restrictions:** Not open to students with credit for BIOL 4441. Not recommended for undergraduates. **Grading:** *A-F grading only.*

BIOL 6500 - Quantitative Methods in Physiology

Units: 2

Quantitative treatment and analysis of physiological data using modern methods including applied statistics, spread sheets, graphical methods and data presentation. **Credit Restrictions:** Not open to students with credit for BIOL 4500.

BIOL 6504 - Comparative Physiology

Units: 4

Physiology of metabolic, respiratory, circulatory, excretory, muscle, and nervous systems of vertebrate and invertebrate animals with an emphasis on physiological diversity and adaptation. Required project, designed, implemented and analyzed by student. **Credit Restrictions:** Not open to students with credit for BIOL 4504.

BIOL 6506 - Animal Physiology Laboratory

Units: 3

Examination of regulatory mechanisms of animal organ systems using controlled laboratory experiments, with an emphasis on experimental design and data analysis. An independent research project and oral presentation of these results will be required. May be taken concurrently or following BIOL 6504. **Credit Restrictions:** Not open to students with credit for BIOL 4506.

BIOL 6513 - Animal Senses

Units: 4

Advanced study of how animals use remarkable sensory abilities to communicate, navigate, and detect prey, predators and mates. We will focus on extreme and unusual sensory systems such as echolocation, electroreception, and magnetoreception, as well as vision, smell, touch, and hearing.

BIOL 6515 - Neurobiology

Units: 4

The structure and function of the vertebrate and invertebrate nervous system with emphasis on the principles of communication, control, and sensorimotor responses. Survey of concepts of neurochemistry, feedback, learning, and high brain processes. Students are required to make oral and written presentations of a current topic in neurobiology. **Credit Restrictions:** Not open to students with credit for BIOL 4510.

BIOL 6517 - Environmental Toxicology

Units: 4

Exploration of the physiological effects of exposure to environmental toxicants in animals, from the subcellular to organismal levels. Concepts covered include routes of exposure, modes of action, and metabolism, as well as how toxicants are monitored and regulated. Oral presentation and terminal assignment required. **Grading:** A-F grading only.

BIOL 6520 - Mammalian Physiology Laboratory

Units: 3

Advanced treatment of regulatory mechanisms in mammalian organ systems. Laboratory techniques of anesthesia, surgery, instrumentation and data analysis. Emphasis on cardiovascular, respiratory, renal and gastrointestinal physiology. Terminal project required. **Credit Restrictions:** Not open to students with credit for BIOL 4520.

BIOL 6525 - Neural Development

Units: 4

Survey of various aspects of vertebrate and invertebrate neural development including neurogenesis, neuron polarity, axon/dendrite guidance, target selection and synapse formation. **Grading:** A-F grading only.

BIOL 6801 - Graduate Seminar-Ecology

Units: 3

A seminar in ecology, with a different theme or subject area to be chosen each year. Course based on papers presented by students enrolled.

BIOL 6811 - Graduate Seminar-Physiology

Units: 3

A seminar course dependent upon papers presented by students enrolled. The specific subject area of physiology will be chosen each year.

BIOL 6821 - Graduate Seminar in Cell and Molecular Biology

Units: 3

A seminar course involving presentation and discussion of current research literature in cell and molecular biology. The specific subject matter will be at the discretion of the instructor.

BIOL 6822 - Biotechnology Colloquium

Units: 4

Biotechnology as science and business. Therapeutics research/design, diagnostics, and marketing analyzed via student presentations/industry guest speakers.

BIOL 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities.

BIOL 6900 - Independent Study

Units: 1-4

BIOL 6901 - Comprehensive Examination Preparation

Units: 2

Preparation for graduate comprehensive examination. Directed readings and review of sample questions. Classified graduate student in Biological Sciences. Declared Plan C. May not be repeated for credit.

Grading: *CR/NC grading only.*

BIOL 6905 - Preparation for Undergraduate Instruction in STEM

Units: 4

Preparation for graduate students for the roles and responsibilities of the Biology Teaching Associate (TA) with training in disciplinary pedagogy, policies, and safety. Provides opportunities to develop teaching skills, access resources, receive feedback, and establish a support network. **Prerequisites:**

Graduate student status. **Grading:** *ABC/NC grading only.*

BIOL 6910 - University Thesis

Units: 1-9

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See "University Thesis Writing Guide," available online at www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course. **Grading:** *CR/NC grading only.*

BIOL 6999 - Issues in Biological Science

Units: 2-4

Readings, discussion, and research on contemporary and/or significant issues in biological science.

Biostatistics: Graduate

BSTA 6651 - Analysis of Categorical Data in Biostatistics

Units: 4

Applied methods for discrete data in Biostatistics. Topics may include: proportions and counts, contingency tables, loglinear models, logistic regression, Poisson regression, generalized linear models. Data integrity. Computing techniques and analysis of discrete data. Use of SAS. Report writing. **Cross-listed:** STAT 6651.

BSTA 6652 - Survival Analysis in Biostatistics

Units: 4

Applied methods for survival analysis in Biostatistics. Incomplete data, censored and truncated data, life tables, nonparametric methods, parametric methods, accelerated failure time models, proportional hazards models, partial likelihood, advanced topics. Data integrity. Computing techniques and analysis of clinical data. Use of SAS. Report writing.

BSTA 6653 - Clinical Trials in the Pharmaceutical and Biomedical Industries

Units: 4

Statistical principles, design, and management of clinical trials. Recruitment, treatment allocation, randomization, blocking, and blinding. Practical applications of advanced statistical procedures for clinical trial data. Ethics of clinical trials design, data collection, data analysis and reporting. Data integrity. Data monitoring. Domestic/International regulatory guidelines emphasized. Use of SAS. Professional protocols are studied. Formal report writing and oral presentation.

BSTA 6690 - Statistical Bioinformatics

Units: 4

Statistical analysis of genomic data. Includes probability and statistics application to DNA sequence analysis, phylogenetic inference, statistical population genetics and genetic mapping, statistical molecular evolution, and macromolecular structure prediction. Emphasis on large datasets. **Grading:** *A-F grading only.*

BSTA 6843 - Selected Topics in Biostatistics

Units: 4

Topics in biostatistics. Variable content to be specified at time of offering. **Cross-listed:** STAT 6843-STAT 6849.

BSTA 6844 - Selected Topics in Biostatistics

Units: 4

Topics in biostatistics. Variable content to be specified at time of offering. **Cross-listed:** STAT 6843-STAT 6849.

BSTA 6845 - Selected Topics in Biostatistics

Units: 4

Topics in biostatistics. Variable content to be specified at time of offering. **Cross-listed:** STAT 6843-STAT 6849.

BSTA 6846 - Selected Topics in Biostatistics

Units: 4

Topics in biostatistics. Variable content to be specified at time of offering. **Cross-listed:** STAT 6843-STAT 6849.

BSTA 6847 - Selected Topics in Biostatistics

Units: 4

Topics in biostatistics. Variable content to be specified at time of offering. **Cross-listed:** STAT 6843-STAT 6849.

BSTA 6848 - Selected Topics in Biostatistics

Units: 4

Topics in biostatistics. Variable content to be specified at time of offering. **Cross-listed:** STAT 6843-STAT 6849.

BSTA 6849 - Selected Topics in Biostatistics

Units: 4

Topics in biostatistics. Variable content to be specified at time of offering. **Cross-listed:** STAT 6843-STAT 6849.

BSTA 6999 - Issues in Biostatistics

Units: 4

Readings, discussion, research, and applications on contemporary and/or significant issues in Biostatistics.

Chemistry

CHEM 1101 - General Chemistry

Units: 5

Fundamental principles of chemistry, chemical structure, bonding, equilibrium, dynamics, and reactions. Laboratory includes study of chemical and physical behavior of elements and compounds, and qualitative and quantitative analysis. **Prerequisites:** CHEM 1100 . **Strongly Recommended:** One year high school chemistry, two years high school mathematics, and one year high school physics are recommended.

CHEM 1102 - General Chemistry

Units: 5

Fundamental principles of chemistry, chemical structure, bonding, equilibrium, dynamics, and reactions. Laboratory includes study of chemical and physical behavior of elements and compounds, and qualitative and quantitative analysis. **Prerequisites:** CHEM 1101 or consent of instructor.

CHEM 1103 - General Chemistry

Units: 5

Fundamental principles of chemistry, chemical structure, bonding, equilibrium, dynamics, and reactions. Laboratory includes study of chemical and physical behavior of elements and compounds, and qualitative and quantitative analysis. **Prerequisites:** CHEM 1102.

CHEM 1112 - General Chemistry Supplemental Instruction

Units: 0.5

Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent chemistry course (CHEM 1102). **Co-requisites:** CHEM 1102. **Credit Restrictions:** Not for credit in Chemistry major. **Grading:** CR/NC grading only.

CHEM 1113 - General Chemistry Supplemental Instruction

Units: 0.5

Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent chemistry course (CHEM 1103). **Co-requisites:** CHEM 1103. **Credit Restrictions:** Not for credit in Chemistry major. **Grading:** CR/NC grading only.

CHEM 1601 - Basic Chemistry for the Health Sciences

Units: 4

A two quarter, terminal sequence in chemistry for students preparing for careers in health-related sciences including nursing. CHEM 1601: basic inorganic chemistry. Does not satisfy chemistry requirement for physical science, geology, physics or biology B.S. majors. **Prerequisites:** A score of 42 or above on the Entry Level Math Test or a college level math score on the SAT, ACT or AP exam or the equivalent. **Credit Restrictions:** CHEM 1601 is not open to students with credit for CHEM 1605.

CHEM 1602 - Basic Chemistry for the Health Sciences

Units: 4

A two quarter, terminal sequence in chemistry for students preparing for careers in health-related sciences including nursing. CHEM 1602: basic organic chemistry and introduction to biochemistry. Does not satisfy chemistry requirement for physical science, geology, physics or biology B.S. majors. **Prerequisites:** CHEM 1601 or CHEM 1605; A score of 42 or above on the Entry Level Math Test or a college level math score on the SAT, ACT or AP exam or the equivalent.

CHEM 1610 - Survey of Basic Chemistry for Health Sciences

Units: 6

One quarter, terminal course in chemistry for students preparing for careers in health-related sciences including nursing. Covers basic inorganic and organic chemistry, and an introduction to biochemistry. **Credit Restrictions:** Not open to students with credit for CHEM 1601, CHEM 1605 or CHEM 1615. **Grading:** A-F grading only.

CHEM 1615 - Survey of Basic Chemistry for Healthier Living

Units: 6

A chemical perspective for healthier living. Covers basic inorganic and organic chemistry, and an introduction to biochemistry. **Credit Restrictions:** Not open to students with credit for CHEM 1601, CHEM 1605 or CHEM 1610. **Grading:** A-F grading only.

CHEM 2200 - Quantitative Analysis

Units: 5

Elementary gravimetric and volumetric analysis; instrumental methods of analysis. **Prerequisites:** CHEM 1103.

CHEM 2301 - Survey of Organic Chemistry

Units: 4

Classes of organic compounds and reactions emphasizing subjects in biological sciences. For non-chemistry majors not planning advanced work in organic chemistry. **Prerequisites:** CHEM 1103.

CHEM 2302 - Survey of Organic Chemistry

Units: 4

Classes of organic compounds and reactions emphasizing subjects in biological sciences. For non-chemistry majors not planning advanced work in organic chemistry. **Prerequisites:** CHEM 1103, CHEM 2301.

CHEM 3080 - Chemistry Hands-On Laboratory

Units: 2

Designed to give students the opportunity to work with elementary and middle school students in a

science teaching/learning environment. The hands-on lessons provide early teaching experience in science for undergraduates exploring teaching as a career. **Prerequisites:** CHEM 1100.

CHEM 3200 - Bioanalytical and Forensic Instrumentation

Units: 4

Introduction to biotechnical and forensic laboratory analytical methods, including preparation of biological and other forensic samples for analysis. Operation and data analysis of instruments such as HPLC, GC, GC/MS and AA. **Prerequisites:** CHEM 2302 or CHEM 3303.

CHEM 3301 - Organic Chemistry

Units: 5

An introduction to the chemistry of aliphatic, aromatic, and heterocyclic compounds emphasizing basic principles. Laboratory work in basic techniques and synthesis. *Note: This course is prerequisite to CHEM 3302.* **Prerequisites:** CHEM 1103.

CHEM 3302 - Organic Chemistry

Units: 5

An introduction to the chemistry of aliphatic, aromatic, and heterocyclic compounds emphasizing basic principles. Laboratory work in basic techniques and synthesis. *Note: This course is prerequisite to CHEM 3303.* **Prerequisites:** CHEM 1103; CHEM 3301.

CHEM 3303 - Organic Chemistry

Units: 5

An introduction to the chemistry of aliphatic, aromatic, and heterocyclic compounds emphasizing basic principles. Laboratory work in basic techniques and synthesis. **Prerequisites:** CHEM 1103; CHEM 3301; CHEM 3302.

CHEM 3400 - Introductory Biochemistry

Units: 4

A survey of biochemistry emphasizing the structure and metabolism of biomolecules such as amino acids, proteins, carbohydrates, lipids and nucleic acids. **Prerequisites:** CHEM 1602 or CHEM 2302 or CHEM 3303.

CHEM 3405 - Clinical Chemistry

Units: 5

Biochemical processes associated with disease; principles underlying the use of laboratory tests to monitor human health; quantitation of body fluid constituents such as enzymes, carbohydrates, cholesterol, hormones and other metabolites. **Prerequisites:** CHEM 3400 and CHEM 3401.

CHEM 3501 - Biophysical Chemistry

Units: 4

A presentation of the fundamental concepts of physical chemistry with emphasis on the study of the structure and properties of biological macromolecules. Thermodynamics, spectroscopy, X-ray diffraction, chemical equilibria, ultracentrifugation, electrophoresis, and molecular interactions in solution will be covered. **Prerequisites:** *CHEM 1103, MATH 1305, and PHYS 2703.*

CHEM 3511 - Physical Chemistry Lecture

Units: 3

Fundamental physical laws, theoretical principles and mathematical relations of chemistry. *Note: This course is prerequisite to CHEM 3512.* **Prerequisites:** *MATH 2304 and PHYS 1003 (or concurrent) or PHYS 2703.*

CHEM 3512 - Physical Chemistry Lecture

Units: 3

Fundamental physical laws, theoretical principles and mathematical relations of chemistry. *Note: This course is prerequisite to CHEM 3513.* **Prerequisites:** *CHEM 2200, CHEM 3511, MATH 2304 and PHYS 1003 (or concurrent) or PHYS 2703.*

CHEM 3513 - Physical Chemistry Lecture

Units: 3

Fundamental physical laws, theoretical principles and mathematical relations of chemistry. **Prerequisites:** *CHEM 2200, CHEM 3511, CHEM 3512, MATH 2304 and PHYS 1003 (or concurrent) or PHYS 2703.*

CHEM 3531 - Physical Chemistry Laboratory

Units: 2

Experience in the measurement of physicochemical properties, digital computer analysis of experimental data, and report writing. *Note: This course is prerequisite to CHEM 3532.* **Prerequisites:** *CS 1020 or CS 1160 (or concurrent enrollment); CHEM 3511 (or concurrent enrollment).*

CHEM 3532 - Physical Chemistry Laboratory

Units: 2

Experience in the measurement of physicochemical properties, digital computer analysis of experimental data, and report writing. **Prerequisites:** *CS 1020 or CS 1160 (or concurrent enrollment); CHEM 3511 (or concurrent enrollment); CHEM 3531.*

CHEM 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; departmental approval of activity;*

completion of CHEM 2200. No units may be counted toward the Chemistry major or minor. **Grading:** CR/NC grading only.

CHEM 4161 - Advanced Inorganic Chemistry

Units: 3

The bonding, structure and reactivity of inorganic compounds. **Prerequisites:** CHEM 3303.

CHEM 4162 - Advanced Inorganic Chemistry

Units: 3

The bonding, structure and reactivity of inorganic compounds. CHEM 4162 emphasizes the structure and chemistry of coordination compounds and complex ions, including the application of group theory to spectral analysis. **Prerequisites:** CHEM 4161.

CHEM 4180 - Inorganic Chemistry Laboratory

Units: 2

Laboratory experience in the preparation and characterization of selected inorganic compounds.

Prerequisites: CHEM 4162.

CHEM 4240 - Instrumental Methods of Analysis

Units: 4

Principles of operation and application of instrumental methods including visible/ultraviolet and infrared spectrophotometry, atomic emission and absorption, nuclear magnetic resonance and mass spectrometry, gas-liquid and high-performance liquid chromatography, electrochemistry, and data acquisition and instrument control using microcomputers. **Prerequisites:** CHEM 2302 or CHEM 3303; CHEM 3501 or CHEM 3511.

CHEM 4311 - Advanced Organic Chemistry

Units: 4

Mechanistic approaches to synthetic studies; chemistry of carbonyl compounds; chemistry of heterocyclic and polycyclic compounds with emphasis on those of natural origin or biological interest. **Prerequisites:** CHEM 3303.

CHEM 4400 - Instructional Activities in Chemistry

Units: 2

Theory and practice of teaching chemistry concepts using modern pedagogical techniques most relevant to chemistry; guided field experiences as assistants in local high school classrooms, tutoring CSUEB students, and leading group problem-solving sessions. **Prerequisites:** CHEM 3303. **Grading:** CR/NC grading only.

CHEM 4411 - General Biochemistry

Units: 4

A detailed description of the major classes of biological molecules such as amino acids, proteins, enzymes, carbohydrates, lipids, nucleotides, nucleic acids, and specialized molecules such as hormones and coenzymes. The metabolism of these molecules will be covered in detail. *Note: This course is prerequisite to CHEM 4412. Prerequisites: CHEM 3303.*

CHEM 4412 - General Biochemistry

Units: 4

A detailed description of the major classes of biological molecules such as amino acids, proteins, enzymes, carbohydrates, lipids, nucleotides, nucleic acids, and specialized molecules such as hormones and coenzymes. The metabolism of these molecules will be covered in detail. *Note: This course is prerequisite to CHEM 4413. Prerequisites: CHEM 3303. CHEM 4411.*

CHEM 4413 - General Biochemistry

Units: 4

A detailed description of the major classes of biological molecules such as amino acids, proteins, enzymes, carbohydrates, lipids, nucleotides, nucleic acids, and specialized molecules such as hormones and coenzymes. The metabolism of these molecules will be covered in detail. **Prerequisites:** CHEM 3303; CHEM 4411; CHEM 4412.

CHEM 4430 - General Biochemistry Laboratory

Units: 4

Laboratory techniques in biochemistry. Intended to supplement General Biochemistry, CHEM 4411 and CHEM 4412. **Prerequisites:** CHEM 4411. **Co-requisites:** CHEM 4411.

CHEM 4431 - Advanced Biochemistry Laboratory

Units: 2

Advanced laboratory techniques in biochemistry. The focus is on biochemical procedures not covered in CHEM 4430 (advanced electrophoresis techniques, advanced protein characterization and emphasis on the analysis of nucleic acids). **Prerequisites:** CHEM 4413 (or concurrent), and CHEM 4430.

CHEM 4440 - Protein Structure

Units: 3

The basic structural motifs found in proteins such as enzymes, antibodies, membrane-bound proteins, virus-coat proteins, and nucleic acid binding proteins. Discussion will also focus on the biological significance of these structures. **Prerequisites:** CHEM 4411. **Co-requisites:** CHEM 4411.

CHEM 4450 - Nucleic Acid Chemistry

Units: 3

Nucleic acid structure, modification, and processing. Oligonucleotide synthesis, methods essential to the chemical characterization of nucleic acids, and virus structure and replication. **Prerequisites:** CHEM 4412. **Co-requisites:** CHEM 4412.

CHEM 4460 - Major Organ Biochemistry

Units: 3

The unique biochemistry of the major organs of the human body including brain, heart, liver, kidney, skeletal muscle, adipose tissue, endocrine glands, and reproductive organs. The metabolism unique to a particular organ system and to inter-relationships with the other organs of the body. **Prerequisites:** CHEM 4412. **Co-requisites:** CHEM 4412.

CHEM 4521 - Elements of Chemical Thermodynamics

Units: 4

Selected topics in classical and statistical thermodynamics, with emphasis on thermochemical calculations. **Prerequisites:** CHEM 3513.

CHEM 4601 - Environmental Chemistry I

Units: 4

A study of the environmental aspects of chemistry: aqueous multiple equilibria, pH effects of solubility, carbon dioxide systems, inorganic pollutants in water and soils. **Prerequisites:** CHEM 1103.

CHEM 4602 - Environmental Chemistry II

Units: 4

Additional environmental aspects of chemistry: organic pollutants in the environment, photochemical smog, hazardous waste treatment, toxicology, environmental chemical analysis. **Prerequisites:** CHEM 4601 or instructor consent.

CHEM 4700 - Survey of Chemical Literature

Units: 2

Systematic introduction to the use of the chemical literature, including the use of physical library resources and online database searching. **Prerequisites:** CHEM 3303 or equivalent.

CHEM 4810 - Undergraduate Research

Units: 2

Independent research under the guidance of a member of the Chemistry Department faculty. Students should consult with faculty members to determine specific research opportunities. **Prerequisites:** Consent of instructor.

CHEM 4811 - Senior Thesis

Units: 2

Independent research under the guidance of a member of the Chemistry and Biochemistry Department faculty. Development and writing of a comprehensive report documenting undergraduate research.

Prerequisites: *CHEM 4810 and consent of instructor.*

CHEM 4830 - Seminar in Forensic Research

Units: 1

Seminar on chemical aspects of forensic research. Current issues in forensic science based on chemical concerns.

CHEM 4900 - Independent Study

Units: 1-4

Chemistry: Courses for Non-Science Majors

CHEM 1000 - Popular Topics in Chemistry

Units: 4

Nonmathematical discussions of subjects as: energy in the universe and the cell, evolution, nutrition, chemical senses, drugs, hormones, synthetics, and pollution. Designed as a general education course for non-science majors. **Credit Restrictions:** Not open to students with credit for CHEM 2001.

CHEM 1100 - Introduction to College Chemistry

Units: 5

Elementary principles of chemistry: measurement, properties of matter, chemical symbols and formulas, chemical equations, stoichiometry, atomic structure, gas laws, solutions. **Prerequisites:** Satisfaction of the ELM exam requirement.

CHEM 1110 - Fundamentals of College Chemistry

Units: 5

Elementary principles of chemistry: measurement, properties of matter, chemical symbols and formulas, chemical equations, stoichiometry, atomic structure, and solutions. Real world applications and connections to other science disciplines. Satisfies GE Area: B3. **Prerequisites:** *Satisfaction of the ELM requirement.* **Credit Restrictions:** Not open to students with credit in CHEM 1100.

CHEM 1605 - Basic Chemistry for Healthier Living

Units: 4

A chemical perspective for healthier living. Basic inorganic chemistry: an introduction to atomic and

molecular structure. **Prerequisites:** A score of 42 or above on the Entry Level Math Test or a college level math score on the SAT, ACT or AP exam or the equivalent. **Credit Restrictions:** Not open to students with credit for CHEM 1601. **Grading:** A-F grading only.

CHEM 1620 - Basic Biochemistry for the Health Sciences

Units: 4

Introduction to basic biochemistry with emphasis on the structure, function, and metabolism of proteins, carbohydrates, and lipids as they relate to human health. **Prerequisites:** CHEM 1610, or CHEM 1615. **Credit Restrictions:** Not for Chemistry or Biochemistry major credit.

CHEM 3010 - The Making of Wine

Units: 4

The history, chemistry and technology of wine making. Production of standard types of wine from grape varieties. Laboratory illustrates chemical principles as applied to wine making. Not an elective for the chemistry major.

CHEM 3011 - Foundational Chemistry

Units: 4

Focus on the California State Science Standards and is designed to prepare pre-service and in-service teachers for the CSET General Science Subtest in Chemistry with the goal of obtaining a Foundational Science Credential. CHEM 1100 strongly recommended. **Prerequisites:** High school chemistry, or equivalent; satisfaction of the ELM. Not open to either Chemistry or Biochemistry majors.

CHEM 3012 - Foundational Chemistry Laboratory

Units: 1

This laboratory course supplements CHEM 3011. Designed to prepare pre-service and in-service teachers for the CSET General Science Subtest in Chemistry with the goal of obtaining a Foundational Science Credential. **Prerequisites:** CHEM 1100, CHEM 3011. **Co-requisites:** CHEM 1100, CHEM 3011. **Credit Restrictions:** Not open to either Chemistry or Biochemistry majors.

CHEM 3999 - Issues in Chemistry

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in chemistry.

Chemistry: Graduate

CHEM 6310 - Advanced Topics in Organic Chemistry

Units: 3

Selected topics in special advanced fields of organic chemistry. Topics vary each quarter. **Repeatability:** May be repeated two times for credit when content varies, for a maximum of 9 units.

CHEM 6410 - Advanced Topics in Biochemistry

Units: 3

Selected topics in biochemistry, e.g., advanced discussion of proteins, enzyme kinetics, physical biochemical techniques, nucleic acid chemistry. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 6 units.

CHEM 6430 - Protein Chemistry Techniques

Units: 4

Techniques in protein chemistry. Methods for protein quantification, separation, identification, purification and sequence analysis. Emphasis on modern procedures employing techniques such as chromatography, electrophoresis, isoelectric focusing, gene splicing and immunological probing.

CHEM 6510 - Advanced Topics in Physical Chemistry

Units: 3

Selected topics in physical chemistry, e.g., molecular structure, spectroscopy, quantum mechanics, and crystallography. **Repeatability:** May be repeated for credit, for a maximum of 9 units.

CHEM 6521 - The Chemical Bond

Units: 3

The quantum mechanical description of the structure and spectroscopic properties of atoms and molecules, of the chemical bonding in molecules, and of bonding in solids and liquids.

CHEM 6820 - Seminar

Units: 1

Seminar based on oral presentations, given by the students enrolled, of current chemical literature or reports of research in progress. Effective communication and presentation skills will be emphasized. **Repeatability:** May be repeated two times for credit, for a maximum of 3 units. **Grading:** A-F grading only

CHEM 6830 - Research

Units: 1-5

Original research in chemistry, under the supervision of a member of the graduate faculty. **Repeatability:** May be repeated for credit, for a maximum of 9 units.

CHEM 6850 - Methods of Graduate Research

Units: 3

An introduction to advanced research methods including bibliographical, instrumental, and laboratory applications.

CHEM 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Credit Restrictions:** No units may be counted toward the Chemistry major. **Repeatability:** May be repeated for credit, for a maximum of 8 units. **Grading:** CR/NC grading only.

CHEM 6900 - Independent Study

Units: 1-3

A maximum of four units may be applied toward the degree.

CHEM 6901 - Comprehensive Review

Units: 2

Preparation for Comprehensive Examination including review of relevant areas and preparation of a substantial written report on a selected topic under the direction of a faculty advisor. The final examination covers the selected topic and is the oral portion of the Comprehensive Examination. **Grading:** CR/NC grading only.

CHEM 6910 - University Thesis

Units: 1-3

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense is normally required. (See also, "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course.

CHEM 6999 - Issues in Chemistry

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in chemistry. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Communication

COMM 1000 - Public Speaking

Units: 4

Theory, practice, and evaluation of oral communication. Emphasis on ethical responsibility, careful selection and development of ideas, and logical organization of expository/argumentative/ persuasive discourse.

COMM 1004 - Interpersonal Communication

Units: 4

Study of principles of oral communication in different interpersonal contexts; dyads, interviews, and exercises in listening and speaking intended to develop competence in oral communication.

COMM 2200 - Introduction to Journalistic Writing

Units: 4

Fundamental theory and practice of newswriting across a wide range of platforms, including print and digital formats.

COMM 2201 - Argumentation and Debate

Units: 4

Applied informal logic and reasoned discourse using forensic debate as a format for propositional arguments of fact, value and policy. Careful thinking across personal, professional, and public contexts.

Prerequisites: *COMM 1000 or permission of instructor.*

COMM 2250 - Sports and Media

Units: 4

The relationship between mass media and sports in America. Sports content in the major print and broadcast media, notable careers in sports media, and relevant social scientific research.

COMM 2300 - 21st Century Communication

Units: 4

Introduction to communication studies survey course covering key ideas, readings, and areas of concern. Historical and contemporary perspectives on communication will be examined.

COMM 2320 - Communication Writing and Design

Units: 4

Writing critically, clearly, and accurately across academic and professional communication contexts. Includes emphasis on written style, syntax, punctuation, source citation, and principles of visual design.

COMM 2550 - Queer Cultures: Knowledge and Literacy

Units: 4

Examines queer life as creative expression, both in the mainstream and as a form of self-representation.

Begins with basic terms and culminates in a creative identity project. Inquiries grounded in queer theory and in critical cultural studies.

COMM 2600 - Documentary Film Studies

Units: 4

Screening and discussion of documentary filmmaking and the social impact of the documentary film as a craft and visual art form. History of documentary filmmaking. **Grading:** A-F grading only.

COMM 2800 - Techniques in Research, Reporting and Interviewing (TRRI)

Units: 4

Advanced news production, including how to conduct research, interview, and ultimately report a story, how to make decisions about what information to include, and how best to present information for the maximum results. **Prerequisites:** COMM 2420 or consent of instructor. **Grading:** A-F grading only.

COMM 3000 - History and Criticism Communication

Units: 4

Overview of history of communication and media emphasizing origins and significant developments through the ages. Critical study of media exploring its effects, roles and dramatic changes brought on by technology and synergy, and impact of globalization on field in recent years.

COMM 3002 - Communication, Media and Culture

Units: 4

Exploration of culture as the expression of human agency, hinging on a reciprocal relationship between communication and culture covering embodied, symbolic, material, oral, visual, social, and ideological aspects of cultural studies. Investigates the relationship of technology with communication and culture.

COMM 3003 - Communication Theories

Units: 4

Identify, analyze, and apply a broad spectrum of communication theories guiding research and practice. Areas will include both traditional and critical perspectives, with additional emphasis on cultural and diversity issues and the impact of emerging media technologies.

COMM 3004 - Quantitative Communication Research Methods

Units: 4

Quantitative research methodology as applied to communication contexts, including survey research, observation, and experiments. Emphasis will include development, writing, understanding, and presentation of descriptive and inferential statistics in communication research.

COMM 3005 - Qualitative Communication Research Methods

Units: 4

Surveys various methods of qualitative audience research, measures, analysis, and theoretical definitions of "audience". Students become versed in the advantages and disadvantages of qualitative approaches and conduct primary qualitative research and analysis.

COMM 3010 - Intermediate News Writing and Editing

Units: 4

Basic principles of editing applied to more advanced newswriting. Developing information from various sources: public records, interviews, speeches, and meetings. Story structure and flow and current events examination. **Prerequisites:** *COMM 2200*.

COMM 3100 - Introduction to Professional Video Production

Units: 4

Principles of producing and directing non-dramatic program materials for visual platforms, including online television and other popular digital formats. Theory, application, and practice to include equipment, studio operations and program formats.

COMM 3107 - Introduction to Organizational Communication

Units: 4

Analysis and application of theory and principles of human communication in private and public organizational settings. Historical survey of metaphors and their influence on organizational practices.

COMM 3160 - Radio Operations

Units: 4

Radio production techniques and station operations. Emphasis on audio production, advertising/sales, copywriting, and station management.

COMM 3200 - Introduction to Research Methods in Communication

Units: 4

Theories and methods of conducting research in communication. Basic assumptions that motivate research and differentiate research approaches. Quantitative, qualitative, and public-records research. Issues of basic research design, and data analysis.

COMM 3204 - Reason in Controversy

Units: 4

Identify, analyze, and apply theories of argumentation to controversies in the personal, professional, and public spheres, emphasizing traditional and critical/cultural approaches to evidence and reasoning.

COMM 3220 - Media Workshop: Print

Units: 2

Lab experience in the preparation of materials for print media, particularly university student publications such as the Pioneer newspaper. **Prerequisites:** *COMM 2200, COMM 3000, COMM 3010*

COMM 3221 - Media Workshop: Magazine and Feature Writing

Units: 2

A laboratory experience in publishing for the Internet and the creation of an annual online magazine.

Prerequisites: *COMM 2200, COMM 3000, COMM 3010*

COMM 3222 - Media Workshop: Editorial and Opinion Writing

Units: 2

A laboratory experience in editorial writing for the Internet, including magazine, newspaper and portal uses. **Prerequisites:** *COMM 2200, COMM 3000, COMM 3010*

COMM 3223 - Media Workshop: Advertising and Public Relations

Units: 2

Lab experience in preparation of an advertising and public relations campaign, partnering with local companies. **Prerequisites:** *COMM 2200, COMM 3000, COMM 3010*

COMM 3224 - Media Workshop: Internet

Units: 2

A supervised laboratory experience in the exploration of story telling and narrative communication with multimedia and interactivity; development of new media skills; preparation of materials for online media, progression from linear into non-linear narrative. **Prerequisites:** *COMM 2200*

COMM 3225 - Media Workshop: Photojournalism

Units: 2

A laboratory experience to prepare students for participation in the job market as professional photographers. Students produce individual portfolios, and serve as photographers for print and online editions of The Pioneer newspaper. **Prerequisites:** *Camera proficiency and familiarity with electronic methods of editing and printing photographs.* **Grading:** *A-F grading only.*

COMM 3231 - Media Workshop: Radio

Units: 2

A supervised laboratory experience in the preparation of materials for radio, particularly university productions. Maximum number in any workshop: six (6). **Prerequisites:** *COMM 3160 or consent of instructor.*

COMM 3232 - Media Workshop: Video/Documentary

Units: 2

A laboratory experience in video and documentary production. **Prerequisites:** *COMM 3100*. **Repeatability:** May be repeated three times for credit for a maximum of 8 units toward graduation; only one enrollment (2 units) may be counted toward the Communication, M.A.

COMM 3235 - Journalism Practicum

Units: 1-3

Students acquire hands-on newspaper experience by working five to fifteen hours per week for The Pioneer under the direction of the faculty advisor to The Pioneer. Positions include editors, reporters, photographers, production assistants and account executives. **Prerequisites:** *COMM 2200; COMM 3010*; permission of Pioneer Advisor. **Repeatability:** May be repeated for a maximum of 6 units.

COMM 3340 - Graphic Communication

Units: 4

A survey of the concepts and methods of non-verbal communication with an emphasis on computer-oriented media. Provides an introduction for desktop publishing which includes design, layout, and graphic production for electronic and print media publication.

COMM 3510 - Small Group Communication

Units: 4

Principles and methods of public and group discussion in problem solving and learning situations. Development of individual skills in discussion preparation, participation, and leadership through practical application. Small group dynamics.

COMM 3530 - Interviewing Principles and Practices

Units: 4

Combining communication theory and practice, students acquire skills in planning, managing, and interpreting various types of interviews. Skills acquired include how to conduct, respond to and analyze survey interviews, persuasive interviews, informational interviews, employment interviews, and counseling interviews.

COMM 3560 - Persuasion Theory and Practice

Units: 4

Identify, examine, and apply theories of persuasive communication, including emphasis on cultural and diversity variables and emergent media and strategic applications. Applications will include oral, written, and media-driven formats.

COMM 3600 - Digital Photography II

Units: 4

(See ART 3600 for course description.)

COMM 3630 - Digital Photography III

Units: 4

(See ART 3630 for course description.)

COMM 3660 - Portrait Photography

Units: 4

(See ART 3660 for course description.)

COMM 3670 - Introduction to Studio Lighting

Units: 4

(See ART 3670 for course description.)

COMM 3671 - Advanced Studio Lighting

Units: 4

(See ART 3671 for course description.)

COMM 3680 - Photography Career Preparation

Units: 4

Fine art and professional photography career preparation. Topics include resume creation, gallery and museum interactions, commercial photography practices and apprenticeship programs, and general business practices for photographers. Field trips may be required.

COMM 3690 - Documentary History and Tradition Abroad

Units: 4

Explores indigenous documentary films of the host country from the 19th century to the present. Engage documentary at a multi-cultural level as a global consumer and citizen; examine and understand influence of multi-media visual rhetoric; analyze, discuss, created arguments about the messages in documentary films. **Grading: A-F grading only.**

COMM 3691 - Digital Media Production Abroad

Units: 4

Theories and practices of digital media production. Students will Produce VNRs, short documentaries, still-life images, and travel blogs while learning technical skills and executing understanding of the planning process of digital media production in a multicultural environment. **Grading: A-F grading only.**

COMM 3710 - Video/Audio Production II

Units: 4

Pre-production of creative video and digital projects intended for broadcast of the CSUEB internet portal. Determining target audience, writing proposals, audio-visual shooting/editing plan, budgeting, scheduling. **Prerequisites:** *COMM 2710 or consent of instructor.* **Grading:** A-F grading only.

COMM 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity.* **Grading:** *CR/NC grading only.*

COMM 3999 - Issues in Communication

Units: 4

COMM 4005 - Histories of Film

Units: 4

(See ART 4005 for course description.)

COMM 4006 - Intermediate Video Production

Units: 4

Pre-production of creative video and digital projects intended for broadcast of the CSUEB Internet portal. Determining target audience, writing proposals, audio-visual shooting/edit plan, budgeting, scheduling. **Prerequisites:** *COMM 3100.*

COMM 4107 - Relational Communication in Organizations

Units: 4

Personal, public and professional relationships in organizational life. From family communication to entering and departing work situations, superior-subordinate relations, evaluating performance, harassment, and conflict. Organizational pathologies and healthy communication.

COMM 4150 - Media and Government

Units: 4

Interactions between the media and government. Reading on and discussion of current issues, including political elite uses of the media; reporter-official relationships; studies in power manipulation, co-optation and conflict.

COMM 4200 - Radio Programming and Promotion

Units: 4

Theory and practice of radio programming and promotion, including audience and music research, music rotations, news and public affairs programming, on- and off-air promotions, bartering, broadcast formatics, working with clients, record companies. **Prerequisites:** *COMM 3160 or consent of instructor.*

COMM 4201 - Comparative Traditions of Rhetoric

Units: 4

A study of Greek, Roman, and non-European traditions of rhetoric and oratory with an emphasis on theories of discourse, rhetorical practices, and the influence of particular cultures on rhetorical theory and practice.

COMM 4205 - Ethics and Law in Communication

Units: 4

Ethical issues in communication. Includes principles and practices in contexts of public, interpersonal, organizational, mediated, and cross-cultural communication. Case studies of current laws and regulations relating to freedom of speech; defamation; contempt; invasion of privacy; obscenity; copyright and related issues.

COMM 4207 - Communicating in Organizations

Units: 4

Analysis of organizations as historically evolving discursive systems of activity mediated by talk, text, and artifacts. Topics in coordinating, symbolizing, talking, negotiating, social computing, storytelling, joking, and visualizing in organizations. Case studies in innovation; forecasting competitive advantage; technology-mediated work.

COMM 4300 - Critical Discourse of Difference

Units: 4

Analyze, critique and create various forms of spoken, written and visual communication that engage concepts of "difference." Topics may include gender, race, ethnicity, and sexual identity as well as other social categories such as age, ability, and mental health.

COMM 4500 - Gender Identity and Representation in Media

Units: 4

Study of gender in media, including both gendered images in media content and an examination of impacts of gender and identity in the media industries. Reading and discussion, including content analysis of contemporary and historical gendered media portrayals.

COMM 4510 - Public Relations Theory and Practice

Units: 4

Principles of public relations as applied to the creation and production of messages for institutions and industry. Analysis of moving public opinion. Analysis of their "publics" including investigation of the psychological, sociological, economic, political and ethical foundations. **Prerequisites:** *COMM 2300*.

COMM 4515 - Critical Discourse in Multicultural America

Units: 4

Study of ancient and modern theories of rhetorical criticism. Extensive practice in applying principles of criticism to public communication in the diverse and multicultural American society. Emphasis on development of competence in analysis and refinement of judgment.

COMM 4520 - Advertising Form and Function

Units: 4

Principles of advertising applied to the creation and production of advertising messages in their many forms including the investigation of the psychological, sociological, economic, and legal aspects.

COMM 4530 - Communication Campaigns

Units: 4

Theories and principles of advertising, public relations, and marketing communication applied to research, creation and production of all aspects of an actual campaign. Emphasis on the importance of a coordinated effort integrating various strategic communication tools.

COMM 4540 - Selected Topics in Mass Communication and Public Policy

Units: 4

Subjects selected from such areas as: law, ethics, regulation, legislation and access to information. Content may vary and will be announced before registration. **Prerequisites:** *Senior Standing*.

COMM 4600 - Image and Idea

Units: 4

(See ART 4600 for course description.)

COMM 4610 - Rhetoric of Popular Culture

Units: 4

Critical analysis of how popular culture (including clothing, sports events, television, rock concerts, ethnic festivals, advertisements, shopping malls, etc.) works rhetorically as messages and how it works discursively in our interactions with self and others. Students conduct field projects.

COMM 4620 - History of Photography

Units: 4

A general survey of the history of photography. The technical development and the social, aesthetic and commercial impact of the medium. **Cross-listed:** ART 4620.

COMM 4706 - Sports Media Production

Units: 4

Introduction to the theory and process of multi-camera video production of sporting events; principles of program design, live audio mixing, camera operation, and directing. Logistical and aesthetic concepts of the planning and implementation of live sports production. **Prerequisites:** COMM 3100, COMM 4006.

Grading: A-F grading only.

COMM 4750 - Mass Communication Research

Units: 4

Applied research practices for journalists, public relations and advertising practitioners, and communication researchers. Traditional and innovative methods of gathering information: library research, interviewing, interpretation of public opinion polls, interpreting research literature. Computer database searches and analysis of data. **Prerequisites:** COMM 3200. **Credit Restrictions:** Not open to students with credit for COMM 3800.

COMM 4880 - Conflict Management

Units: 4

Theory and application of communication methods for managing expressed disagreements in personal, professional, and public communication spheres.

COMM 4885 - Senior Project: Professional, Public and Organizational Communication

Units: 4

Creation of a comprehensive project that synthesizes learning in the Professional, Public and Organizational Communication option involving an integrated communication plan or a Public Relations/Advertising campaign completed in conjunction with a local company. To be taken as late in the student's senior year as possible as determined by its availability.

COMM 4890 - Senior Project: Media Production

Units: 4

Creation of a comprehensive project that synthesizes learning in the Media Production option involving visual/new media, e.g. documentary, feature or investigative report. To be taken as late in the student's senior year as possible as determined by its availability.

COMM 4900 - Independent Study

Units: 1-4

Communication: Graduate

At times the subject matter in a course changes significantly and may be taken more than once for credit, with permission of the instructor and the student's advisor. This is indicated in the description of the course.

COMM 5900 - Independent Study

Units: 1-4

May be applied to the M.A. degree with approval. **Repeatability:** May be repeated for credit, for a maximum of 8 units.

COMM 6000 - Introduction to Graduate Study

Units: 4

Develop attitude and skills of scholarly writing; engage questions about approaching and justifying research, conduct literature reviews, practice scholarly writing of research proposals, conduct advanced library research, and consider the place of ethics in research.

COMM 6010 - Seminar in Theories in Communication

Units: 4

Theories of communication across the discipline of communication, interactions among theories, development of theories of communication, and the relationship of theory to criticism and practice.

COMM 6020 - Seminar in Communication, Media, and Society

Units: 4

An overview of media studies in a field of inquiry, including an evolutionary historical perspective culminating in the present state of the field. Emphasis is given to the levels of the inquiry and content, medium and social interactions around the medium. Context range from personal/local through international/global.

COMM 6030 - Capstone Seminar: Rhetoric, Communication, and Media

Units: 4

Integrate study of media and modes of communication within public and professional spheres of communication, engaging tensions among theory, criticism, research, practice, service, and ethics; across research in rhetoric, communication, and media.

COMM 6040 - Advanced Qualitative Research Methods

Units: 4

Qualitative approaches to communication research, emphasizing applied research skills. Cover major traditions and concepts in qualitative research and recent advances in quantitative inquiry into

contemporary electronic media and/or communications issues. **Prerequisites:** COMM 6000 . **Co-requisites:** COMM 6000 .

COMM 6050 - Advanced Quantitative Research Methods

Units: 4

Quantitative approach to communication research, emphasizing applied research skills. Cover major traditions and concepts in quantitative research and recent advances in quantitative inquiry into contemporary electronic media and/or communications issues. **Prerequisites:** COMM 6000 . **Co-requisites:** COMM 6000 .

COMM 6100 - Topics in Speech Communication

Units: 4

Presentation of selected topics in speech communication beyond regular course offerings. Subjects will vary and will be specified at time of offering. **Repeatability:** May be repeated for credit when content varies for a maximum of 8 units.

COMM 6200 - Internship in Speech Communication

Units: 1-4

Supervised experience in a variety of communication activities inside and outside the University. **Repeatability:** May be repeated for credit, for a maximum of 4 units in the M.A.; for a maximum of 6 units (combined with units from Co-Op Ed.) in the B.A. **Grading:** *CR/NC grading only.*

COMM 6250 - Teaching Communication

Units: 4

The theories of learning and motivations to learn. Development of strategies to communicate course content to encourage learning for the diversity of students in the communication classroom.

COMM 6300 - Seminar in Media Studies

Units: 4

Examines the historical, philosophical, technological, economic, political, and sociological dimensions of media studies as a field of inquiry, emphasizing current concerns in effects and critical research. **Prerequisites:** COMM 6000, COMM 6020. **Co-requisites:** COMM 6000, COMM 6020.

COMM 6400 - Seminar in Rhetorical Studies

Units: 4

Selected topics from the philosophy and theory of rhetoric and public address, with original investigations by the student in areas of particular interest; special attention to the literature relating to selected topics. **Repeatability:** May be repeated once for credit.

COMM 6450 - Seminar in Globalization and Media

Units: 4

Perspectives examining globalization of media and the special role media plays in globalization. Draws from political economy (authors such as David Held and Manuel Castells) and critical media studies.

COMM 6550 - Seminar in Critical Cultural Studies

Units: 4

Overview of cultural studies as a field of inquiry from a critical perspective. Major works studied may include the Frankfurt School, Raymond Williams, Stuart Hall, Paula Treichler, Homi Bhabha, Arjun Appadurai and contemporary figures in the field.

COMM 6551 - Critical Ethnic Media Studies

Units: 4

Overview of the ethnic media infrastructure and discourse as it relates to the changing face of contemporary media in America. Emphasizes study of community, diaspora, marginality, border-crossings, gender, transgression, queer ethnicity, and critical examinations of oppressions and resistance.

COMM 6600 - Seminar in Organizational Communication

Units: 4

Oral communication in organizational settings including the design, implementation and management of communication systems. Research and theories of organizational communication. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

COMM 6700 - Seminar in Communication Campaigns Theory and Research

Units: 4

Theory in relation to research, practice, and criticism of communication campaigns in public and professional settings. Theories of persuasion; media effects, relationships between public relations, advertising, and media; ethics in public relations and advertising. **Prerequisites:** COMM 6000. **Co-requisites:** COMM 6000.

COMM 6800 - Seminar in Interpersonal Communication

Units: 4

Critical examination of research, theory, and methods in interpersonal communication; analysis of verbal and nonverbal message forms affecting the nature of human interaction. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

COMM 6850 - Professional Communication

Units: 4

Overview of professional communication principles and practices, covering skills, strategies, techniques, use of media, ethics, and professional communication across and between differing cultural and ethnic contexts.

COMM 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Repeatability:** May be repeated for credit, for a maximum of 8 units. Only a maximum of 4 units may be applied to the M.A. in Communication. **Grading:** *CR/NR grading only.*

COMM 6899 - Project

Units: 5

Development of an original product which is summarized in a written abstract. Both the project and the abstract are submitted to the department which specifies their formats. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense may be required. Maximum of 5 units per student.

COMM 6900 - Independent Study

Units: 1-4

COMM 6901 - Comprehensive Examination Preparation

Preparation for graduate comprehensive examination. Directed readings and review of sample questions. **Repeatability:** May not be repeated for credit. **Grading:** *CR/NC grading only.*

COMM 6910 - University Thesis

Units: 1-9

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See also "University Thesis Writing Guide.") Maximum of 9 units per student.

Note: see Errata chapter in this catalog for minor change to this course.

COMM 6999 - Issues in Speech Communication

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in speech communication. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Computer Engineering

CMPE 3010 - Electric Circuit Theory II

Units: 4

Advanced digital topics, transistor behavior, modeling and design, SPICE, and Logic families like CMOS, TTL, ECL, NMOS, DOMINO, etc. **Prerequisites:** ENGR 2010 **Co-requisites:** CS 3430.

CMPE 3430 - Computer Architecture

Units: 4

(See CS 3430 for course description.)

CMPE 3432 - Digital Design Lab

Units: 4

(See CS 3432 for course description.)

CMPE 3434 - Microprocessor Lab

Units: 4

(See CS 3434 for course description.)

CMPE 3752 - Introduction to Digital Signal Processing

Units: 4

(See CS 3752 for course description.)

CMPE 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus activities. **Prerequisites:** At least a 2.5 GPA, junior or senior standing, departmental approval of activity. A maximum of 4 units will be accepted toward the Engineering major. **Grading:** CR/NC grading only.

CMPE 3999 - Issues in Computer Engineering

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in engineering.

CMPE 4330 - Advanced Work Measurement

Units: 4

Predetermined time systems. Time formulas. Standard data systems. Use of statistical methods. Standard data systems applied to clerical, manufacturing, and micro assembly. Developing and maintaining computerized systems.

CMPE 4432 - VLSI Circuit Design

Units: 4

(See CS 4432 for course description.)

CMPE 4435 - Computer Architecture II

Units: 4

(See CS 4435 for course description.)

CMPE 4610 - Senior Design I

Units: 3

Development of technical writing and presentation skills through class discussions, proposal writing and presentations. Development of team skills through identification and development of team project proposal and through team building exercises. Utilization of engineering design process and project management techniques in proposal development. Introduction of engineering ethics through case studies.

Prerequisites: Engineering Department: Senior standing and departmental approval. Industrial Engineering Option: any three of INDE 4100, INDE 4200, INDE 4300, INDE 4430. Computer Engineering Option: CS 4435/CMPE 4435 and CS 4560. **Co-requisites:** Industrial Engineering Option: any three of INDE 4100, INDE 4200, INDE 4300, INDE 4430. Computer Engineering Option: CS 4435/CMPE 4435 and CS 4560.

CMPE 4620 - Senior Design II

Units: 3

Utilization of industrial engineering skills and engineering design concepts including development of alternative solutions and economic analysis of alternatives to complete an industrial project. **Prerequisites:** CMPE 4610.

CMPE 4835 - Human-Computer Interaction

Units: 4

(See CS 4835 for course description.)

CMPE 4845 - Fuzzy Sets and Fuzzy Logic

Units: 4

(See CS 4845 for course description.)

CMPE 4900 - Independent Study

Units: 1-4

Computer Science

CS 1020 - Introduction to Computers

Units: 4

Computers, their use and place in modern society. Computer organization and hardware, computer software. Introduction to use of the computer, operating system commands, word processing, database management, other applications, and computer programming. Internet and its use. Ethical and societal issues. No prior computer experience necessary; course recommended for students of any major who want to learn about computers and how to use them. **Prerequisites:** *Satisfaction of the Entry Level Mathematics (ELM) requirement.* **Credit Restrictions:** Not open to students with credit for CIS 1270.

CS 1080 - Introduction to Media Computation

Units: 4

Introduction to computer programming through manipulation of digital media such as images and sound. Topics include: control structures, arrays, functions, and use of libraries. Intended for non-majors. **Prerequisites:** *Satisfaction of the Entry Level Mathematics (ELM) requirement.*

CS 1160 - Introduction to Computer Science I

Units: 4

An introduction to computers and computer science, problem solving, algorithms, and program design. Use of Interactive Development Environment (IDE's). Programming in C++. Topics include input and output, text files, control structures, functions, arrays. Students with no computer experience are encouraged to take CS 1020 as preparation for this course. **Prerequisites:** *MATH 1300 or equivalent.*

CS 2020 - Introduction to Web Design and Technology

Units: 4

Technology and design of web sites, systems and services. Human factors issues, computer-human interfaces design, web system design and development and testing; evaluation processes. Website development using multimedia, graphics, image, and animation tools. Topics from e-commerce solutions and networking fundamentals. **Prerequisites:** *Satisfactory completion of ELM.* **Credit Restrictions:** Not open to students with credit for CS 3520; Not for credit in computer science major.

CS 2360 - Introduction to Computer Science II

Units: 4

Continuation of CS 1160. Focuses on algorithm development, structured program design, testing, and debugging. Topics include abstract data types, pointers, linked lists, recursion. Introduction to classes. **Prerequisites:** *CS 1160.*

CS 2370 - Introduction to Computer Science III

Units: 4

Continuation of CS 2360. Further development of programming and problem solving skills in Computer Science. Topics include elementary data structures (stacks and queues), object oriented design, and more on searching, sorting and other algorithms. **Prerequisites:** *CS 2360.*

CS 2430 - Computer Organization and Assembly Language Programming

Units: 4

Functional organization of digital computers and programming in machine and assembly language. Internal representation of data, binary arithmetic, machine instructions, addressing modes, subroutine linkage, macros. Introduction to assemblers, linkers, and loaders. **Prerequisites:** *An introductory programming course.*

CS 3120 - Programming Language Concepts

Units: 4

Survey and critical comparison of a variety of computer languages. Issues include syntax, semantics, control structures, data representation. Discussion of both design and implementation; of both imperative and declarative languages. **Prerequisites:** *CS 2360 and CS 2430.*

CS 3240 - Data Structures and Algorithms

Units: 4

Definition, design, implementation of abstract data structures, including hash tables, trees, graphs. Design, implementation, and analysis of algorithms for these data structures. **Prerequisites:** *MATH 2150, CS 2370, CS 2430.*

CS 3340 - Introduction to Object-Oriented Programming and Design

Units: 4

Programming in an object-oriented language, using object-oriented techniques and concepts. Classes, operator overloading, information hiding, inheritance, and polymorphism. Memory management. Parameterized classes. Exception handling. Object-oriented design of programs. **Prerequisites:** *CS 3240 and knowledge of C or C++.*

CS 3430 - Computer Architecture

Units: 4

Logical design of digital computers. Boolean algebra, combinational and sequential circuits, computer arithmetic, memories, integrated circuits, control processors, input/output. No electronics experience needed. **Prerequisites:** *MATH 2150, CS 2430.* **Cross-listed:** *CMPE 3430.*

CS 3432 - Digital Design Lab

Units: 4

Design assembly and test of combinational and sequential circuits. Digital systems design using computer-aided-design tools and programmable logic devices. **Prerequisites:** *CS 3430.* **Cross-listed:** *CMPE 3432.*

CS 3434 - Microprocessor Lab

Units: 4

Microprocessor organization and operation; hardware/software interaction; memory, serial, and parallel I/O port interfacing; interrupt-handling. **Prerequisites:** CS 3430. **Cross-listed:** CMPE 3434.

CS 3520 - Web Site Development

Units: 4

Web servers and browsers. HTML, images, audio and video files, indexer, forms, CGI scripts, Java programming, JavaScript. **Prerequisites:** CS 3240.

CS 3560 - Introduction to Systems Programming

Units: 4

Introduction to systems programming in a modern environment. Introduction to fundamental concepts of operating systems; analysis of a particular operating system (organization, interfaces, system calls, files, process control and communication, resource sharing). Shell and C programming. Development tools. **Prerequisites:** CS 2360.

CS 3590 - Data Communications and Networking

Units: 4

Fundamentals of data communications: media, transmission, encoding and processing, interfacing, error detection and handling, link control, multiplexing, circuit and packet switching. Introduction to network architecture and topology: local and wide area networks. **Prerequisites:** CS 2370 and CS 3430.

CS 3750 - Numerical Analysis I

Units: 4

(See MATH 3750 for course description)

CS 3752 - Introduction to Digital Signal Processing

Units: 4

Mathematical modeling of signals and systems. Continuous and discrete signals, with applications to audio, images, video, communications, and control. Frequency domain modeling and frequency response. Sampling of continuous-time signals. A simulation-based laboratory is part of the course. **Prerequisites:** MATH 1304, MATH 2101; CS 1160. **Cross-listed:** CMPE 3752.

CS 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** At least 2.0 GPA; departmental approval of activity; completion of lower division Computer Science major requirements, and upper division standing. A maximum of 4 units will be accepted toward the Computer Science major. **Grading:** CR/NC grading only.

CS 4020 - Computing and Social Responsibility

Units: 4

Social impact and ethical aspects of computing: responsibility of practicing professionals, effects on privacy, security, property rights of individuals and institutions, etc. Topics include system reliability, intellectual property, computer crime, attacks on computer systems, and societal dependence on computers. **Prerequisites:** CS 3240, or consent of instructor.

CS 4110 - Compiler Design

Units: 4

Design and construction of high-level language translators. Formal language theory, parsing algorithms, interpreting, code generation, optimization. Construction of a small compiler. **Prerequisites:** CS 3120, CS 3240.

CS 4170 - Theory of Automata

Units: 4

Formal models of automata, language, and computability and their relationships. Finite automata and regular languages. Pushdown automata and context-free languages. Turing machines, recursive functions, algorithms and decidability. **Prerequisites:** MATH 1305, MATH 2101, MATH 2150.

CS 4245 - Analysis of Algorithms

Units: 4

Design, analysis and implementation of algorithms. Methods of algorithm design, including recursion, divide and conquer, dynamic programming, backtracking. Time and space complexity analyses in the best, worst, and average cases. NP-completeness; computationally hard problems. Applications from several areas of Computer Science. **Prerequisites:** MATH 1305, MATH 2101, CS 3240.

CS 4310 - Software Engineering I

Units: 4

Concepts and issues in the development of large software projects. Systematic approaches to requirements, analysis, design, implementation, testing, and maintenance of high-quality software. **Prerequisites:** CS 3240.

CS 4311 - Software Engineering II

Units: 4

Continuation of Software Engineering I with emphasis on the object-oriented design to implementation stages of the life cycle. Design methodologies including the Unified Modeling Language, illustrated with example design patterns. Implementation in Java. Topics include standards, documentation, instrumentation, testing. **Prerequisites:** CS 3340, CS 4310.

CS 4320 - Software Testing and Quality Assurance

Units: 4

Concepts and issues in the testing and quality control of large software projects. Topics include white box, black box, unit, integration, and validation testing; quality assurance through planning, review, and use of software metrics. **Prerequisites:** CS 3240.

CS 4432 - VLSI Circuit Design

Units: 4

Fundamental design techniques for VLSI (Very Large Scale Integrated) circuits. Theory of implementing complex integrated circuits on a microchip. Use of computer aided design tools. **Prerequisites:** CS 3430, CS 3432. **Cross-listed:** CMPE 4432.

CS 4435 - Computer Architecture II

Units: 4

Advanced computer organization and design. Topics chosen from among RISC architectures, computer arithmetic, pipelining, cache memory and parallel processors. Recommended prerequisite: knowledge of C programming. **Prerequisites:** CS 3430. **Credit Restrictions:** Not open to students who have completed CS 4430. **Credit Equivalency:** (Formerly CS 4430.) **Cross-listed:** CMPE 4435.

CS 4521 - Mobile and Topics in Web Programming

Units: 4

Current practices and trends in software design, development, and deployment of mobile and new web applications and systems. Topics include modern mobile device application development, web technologies, social application development, pervasive computing and semantic web. **Prerequisites:** CS 3520 or permission of instructor.

CS 4525 - Principles of Network Security

Units: 4

Computer network security fundamentals. Cryptography (Symmetric key algorithms and Public key algorithms). Authentication and identification, message integrity techniques. Access control and key management. Wireless security. Discussion of particular protocols, e.g., IPSEC, TLS, PGP, S/MIME, etc. **Prerequisites:** CS 3590.

CS 4526 - Principles of Wireless, Mobile, Grid and Pervasive Computing Security

Units: 4

Comprehensive new topics in Wireless, Mobile, Grid and Pervasive Computing which includes IEEE 802.11 Wireless Security, Security in Mobile Telecom Networks (GPRS, UMTS), security in MANET, VANET, WSN, Bluetooth, VoIP, Grid networks and Mobile Agents. **Prerequisites:** CS 4525.

CS 4527 - Network Security Management

Units: 4

Issues in the management of secure networks, including models, life cycle, threats and ethical considerations. CIA triad, security star and NSA triad, the information security life cycle, security plans, policy, and risk management, with techniques and technologies for security management. Threats to network and wireless security, disaster planning, cyber terrorism and Homeland Security. **Prerequisites:** CS 4525, CS 4526. **Credit Restrictions:** Not open to Graduate students.

CS 4560 - Operating Systems

Units: 4

Principles of operating system design and implementation. Concurrent processes, interprocess communication, job and process scheduling; deadlock. Issues in memory management (virtual memory, segmentation, paging) and auxiliary storage management (file systems, directory structuring, protection mechanisms). Performance issues. Case studies. **Prerequisites:** CS 3240 and CS 3430.

CS 4590 - Computer Networks

Units: 4

Computer network analysis, design, and implementation. A detailed study of the network, transport and application layers of the TCP/IP model. Specific emphasis on protocols, services, design issues and performance. Programming assignments using TCP/IP. **Prerequisites:** CS 3240, CS 3560 and CS 3590.

CS 4592 - Network Operations and Administration

Units: 4

Network operations, administration, and management. Management Information Base (MIB). Standards including SNMP, CMIP, ASN-1. Network management programming. Network Management of Ethernet and TCP/IP. Survey and applications of existing network management systems. **Prerequisites:** CS 3590.

CS 4593 - Cloud Computing

Units: 4

Cloud computing: its importance, architecture and issues; services and applications by type (IaaS, PaaS, SaaS, IDaaS, CaaS); abstraction and virtualization; capacity planning; exploring platform as a service; cloud security; mobile clouds; application development and case studies. **Prerequisites:** CS 4590. **Grading:** A-F grading only.

CS 4594 - Broadband Networks and Communications

Units: 4

Principles of broadband networks and communications. Telephone system structure, signaling, services, and protocols. Circuit, packet and cell switching. broadband signaling and traffic management. Advanced switch technology. Case studies. **Prerequisites:** CS 3590.

CS 4596 - Wireless and Mobile Networking

Units: 4

Network protocols and mechanisms to support mobility, e.g., Mobile-IP, M-RSVP, proxies. Issues including routing, tunneling, security, and handoffs. Wireless communication standards including AMPS, IS-95, GSM, PCS, and satellite standards. Underlying technologies including multiplexing and coding.

Prerequisites: CS 3590.

CS 4660 - Database Architecture

Units: 4

Relational, network, and hierarchical data models. Data description and data manipulation languages. Schemas, query processing, database system architecture. Integrity, concurrency, and security techniques. Distributed databases. **Prerequisites:** CS 3240.

CS 4665 - Database Operations and Administration

Units: 4

Topics in the operation and administration of databases, including database creation, account maintenance, data import and export, system backup, and performance tuning. Hands-on experience administering an Oracle database. **Prerequisites:** CS 4660.

CS 4810 - Artificial Intelligence

Units: 4

"Intelligent" computer programs and models of human intelligence. Game playing, robotics, computer vision, understanding natural language, knowledge engineering, computer learning. **Prerequisites:** CS 3240.

CS 4840 - Computer Graphics

Units: 4

Survey of computer graphics hardware, algorithms, techniques, and standards. Software development on color-mapped raster-scan computer graphics system. **Prerequisites:** MATH 1305, MATH 2101, and CS 3240, CS 3430.

CS 4845 - Fuzzy Sets and Fuzzy Logic

Units: 4

Fuzzy set theory, fuzzy logic, approximate reasoning and relations between fuzzy set theory, probability theory, belief theory, and possibility theory. Fuzzy aggregation operators, fuzzy relations, and fuzzy clustering. Class project options: decision making, pattern recognition, databases, control, data mining.

Prerequisites: CS 1160, MATH 2150, and course in probability or statistics; or permission of instructor. **Cross-listed:** CMPE 4845 and MATH 4845.

CS 4848 - Computer Animation Programming

Units: 4

Principles and techniques used to produce software for computer-generated animations. Survey of traditional animation techniques. Issues in 3-D viewing, rendering, and modeling. Motion specification and interpolation. Physically-based and behavioral modeling. **Prerequisites:** CS 4840.

CS 4849 - Game Programming

Units: 4

Survey of technologies for programming computer games. Topics include: mathematics, data structures, graphics (rendering, animation, cinematography), game logic, scripting, networking and server design, audio, artificial intelligence. **Prerequisites:** CS 4810 or CS 4840 or equivalent experience, and either CS 3340 or graduate standing.

CS 4865 - Graphical User Interface Programming Using a Rapid Application Development Tool

Units: 4

Event-driven programming in a windowed Graphical User Interface environment using a Rapid Application Development tool set. Pull-down menus, tool bars and other standard control objects, pointing devices, object hierarchy, standard dialogs, connecting to databases, state table programming. **Prerequisites:** CS 3340.

CS 4900 - Independent Study

Units: 1-5

Computer Science: Graduate

CS 6000 - Research Methodologies

Units: 2

Seminar in recent research in Computer Science. Use of periodical and non-periodical literature for research in computer science. Students read, analyze, present, and discuss papers of current interest in Computer Science. **Prerequisites:** "Classified Graduate" standing in Computer Science M.S. degree program and permission of instructor.

CS 6110 - Theory and Design of Compilers

Units: 4

Grammars and parsing techniques, advanced theory and methods of code generation, code optimization, error recovery, use of compiler-generator tools. **Prerequisites:** CS 4110

CS 6170 - Automata and Formal Languages

Units: 4

Alphabets, strings and languages; Chomsky hierarchy and language classes; regular languages, finite automata, regular expressions and operators; context-free languages, grammars, pushdown automata; context-sensitive languages; Turing machines and decidability. **Prerequisites:** MATH 2101, MATH 2150, MATH 2304

CS 6260 - Computation and Complexity

Units: 4

Languages and algorithms; decision problems; Turing machines and Turing-Completeness; decidability; measures and classes of time and space complexity (e.g., P, NP, PSPACE); NP-Completeness.

Prerequisites: CS 4170 or CS 6170 and CS 4245; or permission of instructor. **Cross-listed:** MATH 6260.

CS 6310 - Advanced Software Engineering

Units: 4

Advanced concepts of object-oriented and architectural design, along with implementation. Pattern-based design of software using the Unified Modeling Language. Design patterns as re-usable architecture.

Prerequisites: CS 3340

CS 6320 - Software Engineering of Web-Based Systems

Units: 4

Current practices and trends in software design, development, and deployment of web-based systems, with particular emphasis on e-commerce. Projects include the latest technologies and techniques used by the Internet community. **Prerequisites:** CS 3520, CS 3340.

CS 6325 - Advanced Software Testing

Units: 4

Current practices and tools in software testing. Writing scripts for test automation. Sample topics include: acceptance test-driven development, test data generation, database testing, web testing, test maintenance.

Prerequisites: CS 3240. **Grading:** A-F grading only.

CS 6520 - Cryptography and Data Security

Units: 4

Cryptographic theory with applications to data and file access security. Substitution ciphers, stream and block cyphers, algebraic codes, error correcting codes, Shannon's theorem. Cryptosystems, including public key. The Data Encryption Standard. Issues of privacy, authenticity, integrity. Implementation issues, including key management and chaining. **Prerequisites:** CS 4170 or CS 4245; and CS 4560

CS 6522 - Advanced WWW Software Development

Units: 4

Advanced WWW system architecture and software development. Database access, 2- and 3-tier systems, objects and components, XML, Servlets and JSP, Web Services, Enterprise Java Beans, ASP.NET. Programming exercises. **Prerequisites:** CS 3340, CS 3520.

CS 6525 - Network Security

Units: 4

Principles of secure network communications. Techniques of authentication and identification, cryptographic key distribution and management, assurances of data integrity. Access control. Security policy; conformance of implementation to policy. Discussion of particular systems, protocols, and utilities, e.g., Kerberos, firewalls, various commercial standards. **Prerequisites:** CS 4590

CS 6526 - Security in Wireless, Mobile, Grid and Pervasive Computing

Units: 4

Comprehensive new topics in Wireless, Mobile, Grid and Pervasive Computing which includes IEEE 802.11 Wireless Security, Security in Mobile Telecom Networks (GPRS, UMTS), Security in Mobile Ad Hoc Networks (MANETs), Security in Vehicular Ad Hoc Networks (VANETs), Security in Wireless Sensor Networks (WSN), Bluetooth Security, VoIP Security, Grid Security and Mobile Agents Security. **Prerequisites:** CS 4525, CS 6520, CS 6525.

CS 6527 - Network Security Management

Units: 4

Issues in the management of secure networks, including models, life cycle, threats and ethical considerations. CIA triad, security star and NSA triad, the information security life cycle, security plans, policy, and risk management, with techniques and technologies for security management. Threats to network and wireless security, disaster planning, cyber terrorism and Homeland Security. Students will complete Network Security Threat analysis project. **Prerequisites:** CS 6525, CS 6526 . **Credit Restrictions:** Not open to students with credit for CS 4527.

CS 6560 - Operating Systems Design

Units: 4

Theory of operating systems. Process synchronization, concurrency, resource management, security, performance evaluation, analytic models, human interfaces. Implementation issues. **Prerequisites:** CS 4560.

CS 6570 - Distributed Computation

Units: 4

Classical problems which abstract real-world network problems. Process synchronization and communication using message-passing systems. Topics may include mutual exclusion, leader election,

global snapshots, Byzantine generals, consensus, shared registers, common knowledge and distributed spanning trees. **Prerequisites:** CS 4560 .

CS 6575 - Parallel Programming

Units: 4

Course Content: Programming techniques and parallel computing architectures to enhance performance. Data parallelism, thread parallelism, and task parallelism. Memory models, shared memory and message passing. Synchronization, consistency, and interprocessor communication. **Prerequisites:** CS 6560

CS 6580 - Distributed Systems

Units: 4

Issues in the design and implementation of distributed systems. Network layers, architectures, and topologies. Distributed process management, concurrency control, deadlock, and recovery. **Prerequisites:** CS 4560, CS 4590 .

CS 6591 - Communication Network Analysis and Design

Units: 4

The practice of network analysis and design. Topics include estimation of traffic demand, requirements specification, topology design, network cost analysis, routing, wired and wireless technologies, design tools, fault tolerance, and design of a LAN or WAN. **Prerequisites:** CS 4590

CS 6592 - Network Management

Units: 4

Computer network management concepts, protocols, and industry standards. SNMP, CMIP, and web management. Management applications including fault, performance, configuration, accounting, and security management. Management tools and network modeling. **Prerequisites:** CS 4590

CS 6593 - Cloud Computing

Units: 4

Cloud computing: its importance, architecture and issues; services and applications by type (IaaS, PaaS, SaaS, IDaaS, CaaS); abstraction and virtualization; capacity planning; exploring platform as a service; cloud security; mobile clouds; application development and case studies; graduate project encompassing advanced synthesis and application of cloud computing principles. **Prerequisites:** CS 4590 **Credit Restrictions:** Not open to students with credit in CS 4593. **Grading:** A-F grading only.

CS 6594 - Broadband and Multimedia Networks

Units: 4

Broadband and multimedia network architectures, services, and protocols. Audio, video, and voice coding, quality of service requirements, traffic management, and scheduling in high speed wired and

wireless networks. **Prerequisites:** CS 3590 **Credit Restrictions:** Not open to students with credit for CS 4594. **Grading:** A-F grading only.

CS 6596 - Wireless and Mobile Network Architecture

Units: 4

Wireless network architectures including cellular, WLAN, and satellite systems. Signal propagation models and reception techniques. Mobile computing issues including location management, routing, transport, and mobile application design. **Prerequisites:** CS 3590; graduate standing. **Credit Restrictions:** Not open to students with credit for CS 4596.

CS 6660 - Database Systems

Units: 4

Design issues in current database systems: data models, storage management and access, distributed systems, query languages and query optimization, database integrity and security, encryption and decryption, concurrency control. **Prerequisites:** CS 4560, CS 4660

CS 6665 - Database Systems Administration

Units: 4

Database system architecture and issues in administration. Advanced techniques in database security, object management, performance analysis, SQL tuning, backup and recovery. Hands on experience administering an Oracle database. **Prerequisites:** CS 4660

CS 6715 - Data Compression

Units: 4

Algorithms for data compression, Huffman coding, arithmetic coding, Lev-Zimpel coding. Adaptive variations of compression algorithms. Lossless and lossy compression. Transform methods and image compression. Coding theory and information-theoretic bounds. Applications to data transmission. **Prerequisites:** CS 3240; STAT 3401 or STAT 3502 .

CS 6750 - Topics in Numerical Analysis

Units: 4

(See MATH 6750 for course description.)

CS 6752 - Digital Signal Processing

Units: 4

Linear systems and complex numbers, Fourier and Z transforms, A/D and D/A conversion techniques, Discrete Fourier Transform, Fast Fourier Transform, linear prediction, digital filters, speech processing. **Prerequisites:** CS 3240, MATH 1304, MATH 2101 .

CS 6810 - Topics in Artificial Intelligence

Units: 4

Knowledge representation and reasoning. Theory and advanced programming techniques. Topics selected from areas of expert systems, natural language processing, image understanding, machine learning, games, and robotics.

CS 6820 - Machine Learning

Units: 4

Advanced topics in Artificial Intelligence, including induction, decision trees, ensemble learning; current-best-hypothesis search, knowledge representation, explanation-based learning, relevance information, inductive logic programming; Bayesian networks, instance-based learning; neural networks and genetic algorithms; reinforcement learning, and adaptive dynamic programming. **Prerequisites:** CS 4810 or CS 6810 .

CS 6825 - Computer Vision

Units: 4

Mathematical and algorithmic approaches to the problem of computing properties of the 3-D world from one or more digital images. Imaging, image processing, feature detection, calibration, stereopsis, motion, object recognition, tracking. **Prerequisites:** CS 3240, MATH 2101 .

CS 6831 - Statistical Learning and Data Analysis

Units: 4

Introduction to machine learning; emphasis on its underlying mathematics. Topics include: feasibility of learning, data representation, gradient descent, regression, over/under-fitting, regularization, neural networks, SVD, and spectral clustering. **Prerequisites:** MATH 2150 and STAT 3401 or STAT 3502. **Grading:** ABC/NC grading only.

CS 6865 - Topics in Graphical User Interface Programming

Units: 4

Topics from event-driven programming using a windowed Graphical User Interface environment and Rapid Application Development tools. Standard control objects and more. Interaction design issues and human-computer interaction. **Prerequisites:** CS 3340

CS 6870 - Computer Simulation

Units: 4

Introduction to construction and analysis of models by computer simulation. Study of one discrete and one continuous simulation language. Application to modeling biological, industrial, and physical processes. **Prerequisites:** MATH 3100, MATH 3331. **Strongly Recommended:** one course in computer programming. **Cross-listed:** MATH 6870.

CS 6899 - Project

Units: 5

Development of an original telecommunications project which is summarized in a written abstract. Both the project and the abstract are submitted to the department which specifies their formats. Supervision by a department committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense required. **Prerequisites:** Advancement to Candidacy.

CS 6900 - Independent Study

Units: 1-4

CS 6901 - Graduate Synthesis in Computer Science

Units: 4

A synthesis of important areas of Computer Science, culminating in comprehensive examinations covering these areas. **Prerequisites:** *Completion of at least 30 units toward the MS degree; satisfactory completion of all course requirements including CS 6260 and CS 6560, and the analysis/automata requirement.*

Credit Restrictions: *Credit only available to students in the M.S. Computer Science program.* **Grading:** *CR/NC grading only.*

CS 6909 - Departmental Thesis

Units: 1-5

Development and writing of a research paper for submission to the department, which specifies its format. Supervision by a departmental committee, at least one of which must be a Cal State East Bay faculty member. **Prerequisites:** *CS 6000, advancement to candidacy, and approval of thesis proposal by advisor and departmental committee.* **Repeatability:** *May be repeated for a maximum of 5 units.*

Construction Management

CMGT 1011 - Introduction to Construction Management

Units: 4

Introduction to construction methods, materials, practices, contracts, codes, laws and trends. Also a study of professional ethics, management techniques and interaction with professional organizations and associations related to construction. **Grading:** *A-F grading only.*

CMGT 2011 - Surveying and Blueprint Reading

Units: 4

Construction surveying site layout techniques are studied. Benchmark, building lines, property lines, leveling and profiling are discussed in lecture with applied laboratory exercises. Broad-based background in interpreting blueprints. Typical plans for both residential and commercial buildings will be reviewed.

Prerequisites: *MATH 1130 and MATH 1300.* **Grading:** *A-F grading only*

CMGT 2060 - Construction Methods and Material I

Units: 4

Introduction to basic construction material. Emphasis is on both light residential and heavy commercial construction including material such as steel, concrete, brick, and wood. Analysis of building methods for structural, non-structural, and design. **Prerequisites:** CHEM 1101, CMGT 1011, PHYS 2702. **Grading:** A-F grading only.

CMGT 2070 - Construction Methods and Material II

Units: 4

Methods in construction of buildings and large structures; site, excavation, foundation, framework, timber, reinforced concrete, structural steel, masonry, excavation, paving, compacting, and others. **Prerequisites:** CMGT 2060. **Grading:** A-F grading only.

CMGT 3101 - Statics

Units: 4

Intermediate introduction to Newtonian mechanics. Analysis of forces and moments on engineering structures in equilibrium. Moments of inertia and stress strain relationships. **Strongly Recommended:** Strongly Recommended: PHYS 2701. **Grading:** A-F grading only.

CMGT 3250 - Electrical and Mechanical Systems in Construction

Units: 4

Introduction to current principles and practices in the application of mechanical and electrical systems. Electrical power system, lighting, wiring, and power distribution. Mechanical systems such as heating ventilating (HV), air conditioning, water supply, drainage, and sewers. **Prerequisites:** PHYS 2702. **Credit Restrictions:** Not open to those with credit for CMGT 4250. **Grading:** A-F grading only.

CMGT 3280 - Construction Law

Units: 4

Introduction to rules and regulations governing construction industry, including contractors licensing law, state lien laws, health and safety regulations, personnel relations and supervision, worker compensation, employment insurance, taxes, and dispute resolution. **Grading:** A-F grading only.

CMGT 3400 - Construction Project Management and Commissioning

Units: 4

Project management concepts for construction; concepts such as roles and responsibilities, labor relations and supervision, administrative systems, computer tools for project management, documentation, quality management, and process improvement. Issues related to commissioning of construction projects. **Prerequisites:** ACCT 2251, CMGT 2070. **Grading:** A-F grading only.

CMGT 3450 - Building Codes

Units: 4

Construction codes: structural, mechanical, electrical, and plumbing. Building safety and accessibility.

Prerequisites: *CMGT 2070. Grading: A-F grading only.*

CMGT 3600 - Soil Mechanics and Building Foundations

Units: 4

Engineering properties of soils and rocks such as permeability, compressibility and shear strength. Site evaluation for building foundations, dams, tunnels and highways. Slope stability. **Prerequisites:** *CMGT 3101. Grading: A-F grading only.*

CMGT 3898 - Cooperative Education

Units: 1-4

Course Content: Supervised work experience in which student completes academic assignments integrated with off-campus activities. **Prerequisites:** *At least a 2.5 GPA, junior or senior standing, departmental approval of activity. Only up to 4 units credit may be applied to the Construction Management major. Grading: A-F grading only.*

CMGT 3999 - Issues in Engineering

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in construction management. **Prerequisites:** *Consent of instructor. Grading: A-F grading only.*

CMGT 4100 - Engineering Graphics for Construction Management

Units: 4

Engineering graphics fundamentals, drawing and reading construction plans with emphasis on the use of Computer Aided Design (CAD) tools in construction. **Prerequisites:** *ENGR 1420, MATH 1300. Grading: A-F grading only.*

CMGT 4200 - Construction Scheduling

Units: 4

Critical path method, planning, scheduling, and control of construction project including sequencing, time, and control. Use of computer tools for project scheduling. **Prerequisites:** *CMGT 2070. Grading: A-F grading only.*

CMGT 4300 - Environmental Issues and Green Building

Units: 4

Environmental laws and regulations pertaining to construction. Issues such as construction waste disposal

and treatment, and green building concepts, LEED permits, scoring and submittal processes for projects. **Prerequisites:** CMGT 2070. **Grading:** A-F grading only.

CMGT 4400 - Construction Cost Estimating

Units: 4

Issues related to construction project cost from the conceptual phase to full implementation. Use of computer aided tools for construction cost estimating. **Prerequisites:** ACCT 2251, ECON 2301. **Grading:** A-F grading only.

CMGT 4500 - Construction Project Planning and Control, Computer Tools

Units: 4

Application of project planning techniques such as CPM and PERT. Project scheduling, forecasting, communications required for project cost and scheduling control. Study of various tools and techniques for construction management information systems. Familiarization with the latest software for construction management. **Prerequisites:** CMGT 2070. **Grading:** A-F grading only.

CMGT 4610 - Senior Project I

Units: 4

Development of technical writing and presentation skills through class discussions, proposal writing and presentations. Development of team skills through team building exercises. Construction management and project management techniques in proposal development. Introduction of professional ethics. **Prerequisites:** Senior standing and department approval. **Grading:** A-F grading only.

CMGT 4620 - Senior Project II

Units: 4

Utilization of construction management skills and design concepts including development of alternative solutions and economic analysis of alternatives to complete a construction management project. **Prerequisites:** CMGT 4610. **Grading:** A-F grading only.

CMGT 4800 - Construction Safety

Units: 4

Explanation of requirements of the Occupational Safety and Health Act and other related federal and state legislation as applied to the building construction industry. Standards for accident prevention, hazard identification, and responsibility for compliance emphasized. **Credit Restrictions:** Not open to those with credit for CMGT 3190. **Grading:** A-F grading only.

CMGT 4900 - Independent Study

Units: 1-4

Course is based on selected research topics agreed on between the student and the faculty supervising the course. **Prerequisites:** Completion of 32 credit hours of required courses. **Grading:** A-F grading only.

CMGT 4990 - Special Topics

Units: 1-4

Group study of a selected topic, the title to be specified in advance. **Prerequisites:** *Permission of instructor.*

Grading: *A-F grading only.*

Construction Management: Graduate

CMGT 6100 - Engineering Graphics for Construction Management

Units: 4

Engineering graphics fundamentals, drawing and reading construction plans with emphasis on the use of Computer Aided Design (CAD) tools in construction. **Grading:** *A-F grading only.*

CMGT 6200 - Legal Issues in Construction Management

Units: 4

Legal issues arising from design and construction services such as claims and dispute resolution, liability, state law pertaining to construction. **Grading:** *A-F grading only.*

CMGT 6300 - Environmental Issues and Green Building

Units: 4

Environmental laws and regulations pertaining to construction. Issues such as construction waste disposal and treatment, and green building concepts, LEED permits, scoring and submittal processes for projects.

Grading: *A-F grading only.*

CMGT 6400 - Construction Cost Estimating

Units: 4

Issues related to construction project cost from the conceptual phase to full implementation. Use of computer aided tools for construction cost estimating. **Grading:** *A-F grading only.*

CMGT 6500 - Construction Project Planning and Control, Computer Tools

Units: 4

Application of project planning techniques such as CPM and PERT. Project scheduling, forecasting, communications required for project cost and scheduling control. Study of various tools and techniques for construction management information systems. Familiarization with the latest software for construction management. **Grading:** *A-F grading only.*

CMGT 6600 - Financial Decision Making and Reporting in Construction

Units: 4

Introduction to real estate finance. Issues such as mortgage evaluation, cash flow, capital markets, tax laws, and other financial aspects of construction projects are covered. **Grading:** *A-F grading only.*

CMGT 6700 - Construction Risk Management and Commissioning

Units: 4

Techniques for decision making under uncertainty, risk analysis in construction. Issues related to commissioning of construction projects. **Grading:** *A-F grading only.*

CMGT 6800 - Construction Safety

Units: 4

Explanation of requirements of the Occupational Safety and Health Act and other related federal and state legislation as applied to the building construction industry. Standards for accident prevention, hazard identification, and responsibility for compliance emphasized. A Graduate Project will be required. **Credit Restrictions:** Not open to students with credit for CMGT 4800. **Grading:** *A-F grading only.*

CMGT 6850 - Current Issues in Construction Management

Units: 4

Topics selected that cover current issues in construction management such as construction methods, equipment, and safety issues. **Repeatability:** May be repeated once for credit for a maximum of 8 units, when content varies. **Grading:** *A-F grading only.*

CMGT 6860 - Utility Systems Construction

Units: 4

Study of the materials, methods, and techniques associated with the construction of major utility systems such as water, sewer, communications, electrical or natural gas. Includes construction of central utility plants, as well as major distribution and collection systems. **Grading:** *A-F grading only.*

CMGT 6870 - Advanced Integrated Computer Applications

Units: 4

Study of management information systems used in the construction industry. Emphasis on the utilization of current state-of-the-art integration of Computer Aided Design (CAD), scheduling (including advanced concepts such as resource leveling, schedule compression, and cash flow projections), and estimating programs. **Grading:** *A-F grading only.*

CMGT 6880 - Applied Research in Construction Management

Units: 4

An integrative capstone experience in which students learn how to conduct literature searches, develop a research proposal, complete mini capstone projects and write comprehensive project reports based on

their work. **Prerequisites:** *Completion of University Writing Skills Requirement.* **Co-requisites:** CMGT 6100, CMGT 6200, CMGT 6300, CMGT 6400, CMGT 6500, CMGT 6600, CMGT 6700, CMGT 6800 and CMGT 6850. **Grading:** *A-F grading only.*

CMGT 6899 - Project

Units: 1-4

This is a capstone project where the knowledge gained in the curriculum is applied to a real world construction project. **Grading:** *A-F grading only.*

CMGT 6900 - Independent Study

Units: 1-4

Course is based on selected research topics agreed on between the student and the faculty supervising the course. **Grading:** *A-F grading only.*

CMGT 6999 - Special Topics in Construction Management

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in construction.

Repeatability: *May be repeated for credit when content varies, for a maximum of 8 units.* **Grading:** *A-F grading only.*

Criminal Justice Administration

CRJA 2100 - Elementary Criminal Law

Units: 4

The nature and functions of criminal law and the principles and rules underlying its administration.

Classification of criminal statutes and crimes. **Grading:** *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 2200 - Basic Criminal Investigation

Units: 4

The principles and methods of investigation used to acquire and to disseminate information about crimes.

Grading: *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 2400 - Evidence in Corrections and Law Enforcement

Units: 4

The role of science and law in the utilization of physical and social evidence in justice administration.

Grading: *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 2500 - Administration of Justice

Units: 4

Survey of the various components of the American criminal justice system, emphasizing police, court and corrections administration. An historical, philosophical overview of justice administration. **Grading:** A grade of C (2.0) or higher is required for all courses to be counted toward the major.

CRJA 2600 - Police Community Relations

Units: 4

The relationship between justice administration and the public with particular emphasis on police relations with ethnic and sexual minorities, and juvenile and adult offenders. **Grading:** A grade of C (2.0) or higher is required for all courses to be counted toward the major.

CRJA 3100 - Corrections and Criminal Justice

Units: 4

Legal aspects of juvenile and adult corrections. Investigative techniques in corrections, including probation and parole. Analysis of concepts of rehabilitation, punishment and revenge. **Grading:** A grade of C (2.0) or higher is required for all courses to be counted toward the major.

CRJA 3200 - Research Methods in Criminal Justice

Units: 4

The application of scientific research methods to selected data and statistics in justice administration. Use of scientific methodology in interpreting crime and correctional data. **Prerequisites:** STAT 1000 or equivalent.

CRJA 3300 - Crime Prevention and Control

Units: 4

Concepts of planning and implementation of crime prevention and control systems. The role of security in urban society and civilian involvement in crime prevention. **Grading:** A grade of C (2.0) or higher is required for all courses to be counted toward the major.

CRJA 3350 - Crime and Criminal Justice in the Media and Cinema

Units: 4

Introduction to types of crime and criminal justice through the media and cinema. Examination of the way these media depict due process, victims and offenders, and the criminal justice policy. A grade of C (2.0) or higher is required for all courses to be counted toward the major.

CRJA 3400 - Advanced Criminal Investigation

Units: 4

A continuation of CRJA 2200. The exploration of investigative problems in major crimes. Analysis of role of criminal investigator and the legal use of scientific aids to investigation. Case history, examination and analysis. **Prerequisites:** CRJA 2200 or consent of instructor.

CRJA 3500 - Criminal Identification

Units: 4

Personal identification in criminal and civil investigation. Photography in criminal identification, classification and filing of fingerprints. Handwriting and voice identification. Identification of the unknown dead and skeletal remains. **Grading:** *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 3610 - Police Organization and Management

Units: 4

Application of principles of organization and management to the study of police agencies and crime investigation; relationship of police agencies to other public agencies. **Grading:** *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 3700 - Ethics and Justice Administration

Units: 4

The development and application of social theories to the study and analysis of ethical decision-making; studies dealing with problems of integrity through organization, management, and leadership, with emphasis on public agencies, particularly the criminal justice system. **Grading:** *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 3750 - Family Violence and the Criminal Justice System

Units: 4

Family violence is prevalent in our society, impacting individuals from all socioeconomic levels. This course will introduce students to the types of family violence, potential causes, impact on both individuals and the community, and the criminal justice response. **Grading:** *A-F grading only. A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 3800 - Comparative Evidence and Its Evaluation

Units: 4

Survey of physical evidence found at crime scenes, including their examination methods and interpretation of results. Academic and practical aspects of evidence examination required for understanding the proper use of physical evidence in resolving criminal disputes. **Grading:** *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. Prerequisites: at least a 2.0 GPA; departmental approval of activity; junior or senior standing. A maximum of 8 units of CRJA 3898 and/or CRJA 4128 may be applied to

electives in the major. **Grading:** A grade of C (2.0) or higher is required for all courses to be counted toward the major.

CRJA 3999 - Issues in Criminal Justice

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in criminal justice. **Grading:** A grade of C (2.0) or higher is required for all courses to be counted toward the major.

CRJA 4100 - Advanced Policing Innovations

Units: 4

Examination and analysis of major policing innovations and their implementation in the last few decades from team-policing to community policing to intelligence-led policing. Includes strengths and weaknesses and the driving forces, facilitators, and obstacles of translating innovations into police practices. **Grading:** A-F grading only.

CRJA 4123 - The Crime Victim

Units: 4

The criminal justice system from the perspective of the victim and the victim's needs/concerns. Various facets of victimology including: victimization data, victim compensation, psychological impacts of crime on victims, and alternatives to current remedies. **Grading:** A grade of C (2.0) or higher is required for all courses to be counted toward the major.

CRJA 4124 - Sex Crime Investigation

Units: 4

Theoretical foundations related to sexual crimes. Basic skills necessary to investigate sexual assault cases, collection and preserving physical evidence, interviewing and interrogation of subjects and victims, and successful preparation of cases for presentation. **Prerequisites:** CRJA 2200 or consent of instructor. **Grading:** A grade of C (2.0) or higher is required for all courses to be counted toward the major.

CRJA 4125 - Women in Criminal Justice

Units: 4

Women as victims, offenders and prisoners; gender sentencing differentials; women in criminal justice professions such as policing, corrections, and courts. **Grading:** A grade of C (2.0) or higher is required for all courses to be counted toward the major.

CRJA 4127 - Crime Theory

Units: 4

Major social, psychological and biological theories of crime causation. Historical and current applications of theory to justice administration and offender treatment and rehabilitation. **Grading:** A grade of C (2.0) or higher is required for all courses to be counted toward the major.

CRJA 4128 - Internship in Criminal Justice

Units: 4

Practical experience in a department-approved criminal justice agency (public or private). Academic assignments integrated with volunteer or paid activities. **Prerequisites:** *Departmental approval of activity. Junior or senior standing. A maximum of 8 units of 3898 and/or 4128 may be applied to electives in major.* **Grading:** *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 4130 - Transnational Crime and Justice

Units: 4

Examines transnational crimes and international responses. Topics include but not limited to organized crime, environmental crime, money laundering, Internet fraud, terrorism, trafficking in drugs, weapons, and persons. Analysis of transnational crime control, and global organized crime issues. **Grading:** *A-F grading only.*

CRJA 4200 - White Collar Crime

Units: 4

Examination of major policing innovations and their implementation. Topics include but are not limited to team-policing, community policing, and intelligence-lead policing. Analyze strengths, weaknesses, driving forces, and obstacles. **Grading:** *A-F grading only.*

CRJA 4330 - Prejudice, Violence, and Hate Crimes

Units: 4

Exploration of the characteristics, prevalence, causes, penalties, and constitutional issues regarding hate crimes and hate speech. The history, social contexts, and political controversies surrounding hate crimes, as well as other components of prejudice and violence, will be examined. A grade of C (2.0) or higher is required for all courses to be counted toward the major. **Grading:** *A-F grading only.*

CRJA 4500 - Animal Cruelty and the Criminal Justice System

Units: 4

Overview of the different types of animal cruelty, global perspectives of the treatment of animals, and criminal justice response to animal cruelty. Addresses domestic and transnational legislative trends related to animal cruelty. **Grading:** *A-F grading only.*

CRJA 4530 - Youth Crime & Empowerment: Experiential Learning

Units: 4

Examination of the impact of victimization and trauma on childhood development. Emphasis on youth empowerment strategies; utilizes experiential learning that involves mentoring students, providing youth with information about community resources, and assisting youth with college applications and

expectations. A grade of C (2.0) or higher is required for all courses to be counted toward the major.
Repeatability: *Repeatable for a maximum of 8 units.*

CRJA 4700 - Community Based Corrections

Units: 4

The role of local, state and federal government in the development of community-based correctional programs. Alternatives to incarceration of the criminal. Topics include halfway houses of correction, community furlough and ex-offender employment. **Grading:** *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 4710 - Drugs, Law, and Society: Race, Gender and U.S. Drug Policy

Units: 4

Exploration of current U.S. drug policy and consequences, such as mass incarceration. Includes historical drug scares, the War on Drugs and repercussions, drug treatment, decriminalization, race and gender analysis. **Grading:** *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 4730 - Restorative Justice

Units: 4

Critical look at how restorative justice responds to crime by holding offenders accountable for harm committed, repairing harm to victims and community, and promoting skills in offenders to prevent crime recurrence. **Grading:** *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 4770 - Criminal Law and the Courts

Units: 4

principles of criminal law; criminal liability and complicity; defenses, justifications, and excuses; crimes against persons, crimes against property, and crimes against public order; and court procedures/sentencing. A grade of C (2.0) or higher is required for all courses to be counted toward the major. **Grading:** *A-F grading only.*

CRJA 4830 - Seminar in Forensic Research

Units: 1

Criminal justice aspects of forensic research. Current issues in forensic science based on scientific, legal, and criminal justice concerns. **Prerequisites:** *Consent of instructor.* **Grading:** *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

CRJA 4900 - Independent Study

Units: 1-4

Grading: *A grade of C (2.0) or higher is required for all courses to be counted toward the major.*

Dance

DANC 1135 - Beginning Technique Classes: Beginning Breakdance I

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1136 - Beginning Technique Classes: Beginning Breakdance II

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1151 - Beginning Technique Classes: Beginning Tap Dance I

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1153 - Beginning Technique Classes: Beginning Tap Dance III

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1181 - Beginning Technique Classes: Beginning Ballroom Dance I

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1182 - Beginning Technique Classes: Beginning Ballroom Dance II

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1183 - Beginning Technique Classes: Beginning Ballroom Dance III

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1201 - Dance for All Bodies and Abilities

Units: 4

Study of personal identity, community and body image. The role of the arts in understanding gender, race, sexual orientation, disability, age, and culture. The creative expression of themes of social change through dance. Composition exercises that include theatre and music. **Credit Restrictions:** Not open to students with credit for DANC 1202 or DANC 1203.

DANC 1202 - World Dance: Oral Traditions and the Stage

Units: 4

An exploration of cultural dances from around the world and the oral traditions and storytelling from which they come. Individual projects on movement and literature of world cultures. **Credit Restrictions:** Not open to students with credit for DANC 1201 or DANC 1203.

DANC 1203 - Exploring the Creative and Spiritual

Units: 4

Theory of creative means used by artists throughout history to make art. Solo and collaborative stage performance exercises directed at releasing creative energies, expanding mental boundaries, and increasing the range of expressive means. **Credit Restrictions:** Not open to students with credit for THEA 1201 or 1202.

DANC 2003 - Intermediate Folk Dance

Units: 1

Repeatability: May be repeated once, for a maximum of 2 units. Two hrs. act.

DANC 2023 - Dance Fitness

Units: 2

Conditioning the body through the use of weights, both free and Nautilus. Proper stretching techniques and dietary considerations. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units.

DANC 2111 - Intermediate Technique Classes: Intermediate Latin Dance I

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2112 - Intermediate Technique Classes: Intermediate Latin Dance II

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2114 - Intermediate Technique Classes: Intermediate Latin Dance IV

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2115 - Intermediate Technique Classes: Intermediate Latin Dance V

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2116 - Intermediate Technique Classes: Intermediate Latin Dance VI

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2120 - Musical Theatre Dance A

Units: 2

Dance techniques, interpretation, and choreography applicable to musical theatre. Might concentrate on dance related to current production, but will expand to other fundamentals. May be taken in any order. **Prerequisites:** *One quarter of Jazz Technique or consent of instructor.*

DANC 2142 - Intermediate Technique Classes: Intermediate Modern Dance II

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2153 - Intermediate Technique Classes: Intermediate Tap Dance III

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2161 - Intermediate Technique Classes: Intermediate Capoeira I

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2162 - Intermediate Technique Classes: Intermediate Capoeira II

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2163 - Intermediate Technique Classes: Intermediate Capoeira I

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2221 - World Folk Dance A

Units: 1

Introduction to traditional folk dances from around the world as a means of experiencing dance as a community-building art form and a celebration of diversity. Accessible dances taught in groups, partners and individual movement patterns, including improvisation techniques.

DANC 2222 - World Folk Dance B

Units: 1

Introduction to traditional folk dances from around the world as a means of experiencing dance as a community-building art form and a celebration of diversity. Accessible dances taught in groups, partners and individual movement patterns, including improvisation techniques.

DANC 2223 - World Folk Dance C

Units: 1

Introduction to traditional folk dances from around the world as a means of experiencing dance as a

community-building art form and a celebration of diversity. Accessible dances taught in groups, partners and individual movement patterns, including improvisation techniques.

DANC 2331 - Mixed Ability Dance A

Units: 2

Methods for including all physical abilities and disabilities, body types, and experience levels in the creation of artistic dance performance. Trust exercises, improvisation, and technique. Informal presentations and performance videos.

DANC 2332 - Mixed Ability Dance B

Units: 2

Methods for including all physical abilities and disabilities, body types, and experience levels in the creation of artistic dance performance. Trust exercises, improvisation, and technique. Informal presentations and performance videos.

DANC 2333 - Mixed Ability Dance C

Units: 2

Methods for including all physical abilities and disabilities, body types, and experience levels in the creation of artistic dance performance. Trust exercises, improvisation, and technique. Informal presentations and performance videos.

DANC 2336 - Sex, Race, and Body Politics in Dance B

Units: 2

Contemporary approaches to dance that address diversity in sexual identity, gender, race, body image, and culture. Special focus on cutting-edge Bay Area artists and trends. Techniques for combining dance, theatre, personal narratives, cultural forms, and current technology.

DANC 2337 - Sex, Race, and Body Politics in Dance C

Units: 2

Contemporary approaches to dance that address diversity in sexual identity, gender, race, body image, and culture. Special focus on cutting-edge Bay Area artists and trends. Techniques for combining dance, theatre, personal narratives, cultural forms, and current technology.

DANC 3022 - Improvisation and Beyond

Units: 3

Exploration of movement through improvisational techniques leading to dance making. Stepping stones to the development of choreography and performance. Fosters a supportive atmosphere while crafting dances through an individual approach.

DANC 3026 - Jazz and Modern Dance

Units: 2

Jazz and modern dance technique with repertory experience. Students will have experience in both styles and learn repertory. Performances at the end of quarter.

DANC 3101 - Dance Ensemble Technique A

Units: 1

Jazz and modern dance technique with repertory experience. Students will have experience in both styles and learn repertory. Performances at the end of quarter.

DANC 3102 - Dance Ensemble Technique B

Units: 1

Jazz and modern dance technique with repertory experience. Students will have experience in both styles and learn repertory. Performances at the end of quarter.

DANC 3103 - Dance Ensemble Technique C

Units: 1

Jazz and modern dance technique with repertory experience. Students will have experience in both styles and learn repertory. Performances at the end of quarter.

DANC 3104 - Dance Ensemble Technique D

Units: 1

Jazz and modern dance technique with repertory experience. Students will have experience in both styles and learn repertory. Performances at the end of quarter.

DANC 3105 - Dance Ensemble Technique E

Units: 1

Jazz and modern dance technique with repertory experience. Students will have experience in both styles and learn repertory. Performances at the end of quarter.

DANC 3106 - Dance Ensemble Technique F

Units: 1

Jazz and modern dance technique with repertory experience. Students will have experience in both styles and learn repertory. Performances at the end of quarter.

DANC 3135 - Advanced Technique Classes: Advanced Breakdance I

Units: 2

Advanced dance techniques. Requires one year each of beginning and intermediate technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for the same technique in former DANC 3000 series.

DANC 3136 - Advanced Technique Classes: Advanced Breakdance II

Units: 2

Advanced dance techniques. Requires one year each of beginning and intermediate technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for the same technique in former DANC 3000 series.

DANC 3137 - Advanced Technique Classes: Advanced Breakdance III

Units: 2

Advanced dance techniques. Requires one year each of beginning and intermediate technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for the same technique in former DANC 3000 series.

DANC 3151 - Advanced Technique Classes: Advanced Tap Dance I

Units: 1

Advanced dance techniques. Requires one year each of beginning and intermediate technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for the same technique in former DANC 3000 series.

DANC 3152 - Advanced Technique Classes: Advanced Tap Dance II

Units: 1

Advanced dance techniques. Requires one year each of beginning and intermediate technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for the same technique in former DANC 3000 series.

DANC 3153 - Advanced Technique Classes: Advanced Tap Dance III

Units: 1

Advanced dance techniques. Requires one year each of beginning and intermediate technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for the same technique in former DANC 3000 series.

DANC 3235 - Dance for Children

Units: 4

Theory and techniques for developing movement and expressive capabilities of the child through dance

participation. Opportunities to work with children are provided. **Prerequisites:** Beginning level dance course (e.g. DANC 1000 series) or consent of instructor.

DANC 3251 - Movement Analysis

Units: 4

How movement communicates and functions in society. Observation, analysis, coaching, and recording of movement; functional alignment (Feldenkrais, Ideokinesis); movement theory (Laban, Bartenieff); cross-cultural models. Helpful for actors, dancers, athletes, coaches, animators, and teachers. **Prerequisites:** *Two quarters of any technique, or consent of instructor.*

DANC 3252 - Dance Through the Ages

Units: 4

The history and evolution of dance from preliterate cultures and ancient civilizations to medieval and Renaissance periods, including anthropological and religious sources. **Credit Restrictions:** Not open to students with credit for DANC 4200.

DANC 3300 - Sex, Race, and Body Politics in Dance

Units: 4

Questions of identity, such as "Who am I?" and "Why can't I?", are explored through examples from the dance world. Focus on groups marginalized because of race, gender, sexual orientation, age, body size, disability, lifestyle. Arts for empowerment.

DANC 3330 - The Digital Stage: Dance on Camera

Units: 4

Students direct, perform, shoot, edit and distribute dance and theatre works in digital format. Includes history and aesthetics of dance for the camera; video production, editing, marketing and podcasting of live performance; portfolio development and design.

DANC 3426 - Collaborative Dance and Theatre

Units: 3

Collaborative theatre techniques to develop and produce a Spring Concert. Dance, music, and theatre utilized in the production with attention to the development of original score, choreography and text. **Repeatability:** May be repeated two times for credit, for a maximum of 9 units.

DANC 3451 - Dance Ensemble A

Units: 3

Dance stylizations and composition. Content varies with instructor; may include improvisation, dance theatre, production problems, etc. Course sequence may be taken in any order. Open to all by audition in any technique course. Concurrent enrollment in Dance Ensemble Technique recommended.

DANC 3452 - Dance Ensemble B

Units: 3

Dance stylizations and composition. Content varies with instructor; may include improvisation, dance theatre, production problems, etc. Course sequence may be taken in any order. Open to all by audition in any technique course. Concurrent enrollment in Dance Ensemble Technique recommended.

DANC 3453 - Dance Ensemble C

Units: 3

Dance stylizations and composition. Content varies with instructor; may include improvisation, dance theatre, production problems, etc. Course sequence may be taken in any order. Open to all by audition in any technique course. Concurrent enrollment in Dance Ensemble Technique recommended.

DANC 3454 - Dance Ensemble D

Units: 3

Dance stylizations and composition. Content varies with instructor; may include improvisation, dance theatre, production problems, etc. Course sequence may be taken in any order. Open to all by audition in any technique course. Concurrent enrollment in Dance Ensemble Technique recommended.

DANC 3455 - Dance Ensemble E

Units: 3

Dance stylizations and composition. Content varies with instructor; may include improvisation, dance theatre, production problems, etc. Course sequence may be taken in any order. Open to all by audition in any technique course. Concurrent enrollment in Dance Ensemble Technique recommended.

DANC 3456 - Dance Ensemble F

Units: 3

Dance stylizations and composition. Content varies with instructor; may include improvisation, dance theatre, production problems, etc. Course sequence may be taken in any order. Open to all by audition in any technique course. Concurrent enrollment in Dance Ensemble Technique recommended.

DANC 3461 - Inclusive Interdisciplinary Ensemble A

Units: 2

Interplay between movement and music in performance and other modes of expression. Inclusive, for people of all sizes, shapes, ages and abilities/disabilities.

DANC 3462 - Inclusive Interdisciplinary Ensemble B

Units: 2

Integrating dance and theatre techniques; deepening understanding and application of physical theatre. Inclusive, for people of all sizes, shapes, ages and abilities/disabilities.

DANC 3463 - Inclusive Interdisciplinary Ensemble C

Units: 2

Exploration of diverse approaches to site-specific and "do-it-yourself" performance, including traditional and experimental methods. Inclusive, for people of all sizes, shapes, ages and abilities/disabilities.

DANC 3464 - Inclusive Interdisciplinary Ensemble D

Units: 2

Approaches to dance accessible to people with and without disabilities and of all sizes, shapes, ages and abilities/disabilities. Covers movement invention, technique and composition.

DANC 3465 - Inclusive Interdisciplinary Ensemble E

Units: 2

Focus on techniques for movement, sound and theatrical improvisation grounded in the study of Contact Improvisation and dance techniques from traditional to contemporary. Accessible to people of all sizes, shapes, ages and abilities/disabilities.

DANC 3466 - Inclusive Interdisciplinary Ensemble F

Units: 2

Explores application of technique to physical, mental and emotional fitness, relationship of fitness to training for performance. Focus on approaching performance in long-term, sustainable ways. Accessible to people of all sizes, shapes, ages and abilities/disabilities.

DANC 3999 - Issues in Dance

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in dance. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

DANC 4131 - Advanced Dance Technique Courses: Advanced Hip Hop Dance I

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4132 - Advanced Dance Technique Courses: Advanced Hip Hop Dance II

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4133 - Advanced Dance Technique Courses: Advanced Hip Hop Dance III

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4135 - Advanced Dance Technique Courses: Advanced Breakdance I

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4136 - Advanced Dance Technique Courses: Advanced Breakdance II

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4137 - Advanced Dance Technique Courses: Advanced Breakdance III

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4900 - Independent Study

Units: 1-4

Developmental Writing

ENGL 0725 - Basic Reading and Composition for Speakers of English as a Second or Foreign Language I

Units: 4

Reading and writing for academic purposes, with special attention to the needs of those for whom English is a second or foreign language. **Prerequisites:** *Score of 150 or lower on EPT. Units do not count toward the baccalaureate degree.* **Grading:** *A/B/C/NC grading only.*

ENGL 0730 - Basic Reading and Composition for Speakers of English as a Second or Foreign Language II

Units: 4

Reading and writing for academic purposes, with special attention to the needs of those for whom English is a second or foreign language. **Prerequisites:** *Score of 150 or lower on EPT. Units do not count toward the baccalaureate degree.* **Grading:** *A/B/C/NC grading only.*

ENGL 0735 - Basic Reading and Composition for Speakers of English as a Second or Foreign Language III

Units: 4

Reading and writing for academic purposes, with special attention to the needs of those for whom English is a second or foreign language. **Prerequisites:** *Score of 150 or lower on EPT. Units do not count toward the baccalaureate degree.* **Grading:** *A/B/C/NC grading only.*

ENGL 0801 - The Intensive Learning Experience in Writing I

Units: 4

A three-course sequence in basic (remedial) writing, mandatory for students who have scored 141 and below on the English Placement Test (EPT). The workshops focus on the practice of standard written English. Classes may not be used as prerequisites to the Competency Program in Written English for Non-Native Speakers of English. Units do not count toward the baccalaureate degree. **Grading:** *Grading is A/B/C/NC only.*

ENGL 0802 - The Intensive Learning Experience in Writing II

Units: 4

A three-course sequence in basic (remedial) writing, mandatory for students who have scored 141 and below on the English Placement Test (EPT). The workshops focus on the practice of standard written English. Classes may not be used as prerequisites to the Competency Program in Written English for Non-Native Speakers of English. Units do not count toward the baccalaureate degree. **Grading:** *Grading is A/B/C/NC only.*

ENGL 0803 - The Intensive Learning Experience in Writing III

Units: 4

A three-course sequence in basic (remedial) writing, mandatory for students who have scored 141 and below on the English Placement Test (EPT). The workshops focus on the practice of standard written English. Classes may not be used as prerequisites to the Competency Program in Written English for Non-Native Speakers of English. Units do not count toward the baccalaureate degree. **Grading:** *Grading is A/B/C/NC only.*

ENGL 0910 - Developmental Writing I

Units: 4

A writing workshop preparatory to the written communication requirements, ENGL 1001 and ENGL 1002. Developing college essay writing skills, with special attention to style and usage. **Prerequisites:** Total Score on EPT of 142-146. **Co-requisites:** ENGL 0988 if ESL. Class may not be used as a prerequisite to the Competency Program in Written English Proficiency for Non-Native Speakers of English unless 0988 is taken concurrently. Units do not count toward baccalaureate degree. **Grading:** A/B/C/NC grading only.

Entrepreneurship

ENTR 2485 - Establishing and Managing a Small Business

Units: 4

The fundamentals of establishing and operating a small business. **Prerequisites:** ACCT 2251 or consent of instructor. **Credit Restrictions:** Not open for credit to majors in Business Administration or Economics.

ENTR 4485 - Establishing New Enterprises

Units: 4

In-depth coverage of procedures for setting up new businesses and of problems confronting managers during the critical start-up period; extensive use of cases, situational analyses, and projects. **Prerequisites:** ACCT 2253; FIN 3300; MKTG 3401. **Strongly Recommended:** ITM 3060.

ENTR 4490 - Practicum in Small Business Management

Units: 4

Student consultant teams assisting small businesses; responsibilities include reviewing performance; isolating problems; researching solutions; presenting oral analysis to class; preparing written reports for business. **Prerequisites:** ACCT 2253; ECON 3551; FIN 3300; MGMT 3100; MKTG 3401; MKTG 3495. **Co-requisites:** MKTG 3495. **Strongly Recommended:** ITM 3060.

Entrepreneurship: Graduate

ENTR 6480 - Introduction to Entrepreneurship

Units: 4

Provides a survey of entrepreneurship and business ownership--including foundation concepts, the new venture creation process, financial estimation, and entrepreneurial decision-making. A highly participatory, integrative class, with lectures, case studies, extensive discussions, and student presentations. **Prerequisites:** All Fundamental Courses.

ENTR 6485 - New Venture Development

Units: 4

Students select, research, design, structure, document, and persuasively present a business plan for a new or growing entrepreneurial venture. Students learn and apply systematic approaches to business planning.

A highly participatory, team-oriented, term project class. **Prerequisites:** All Fundamental Courses and ENTR 6480.

ENTR 6800 - Entrepreneurship Practicum

Units: 4

An integrative capstone experience in which students learn to develop business strategies and write a strategic business plan. This course is formatted as an experiential, hands-on consulting project working with small to mid-sized enterprises. **Prerequisites:** All CBE and University proficiencies, including the UWSR, All MBA Fundamental Courses, minimum of 36 units of core and/or option courses, and application for graduation on file. **Grading:** *A-F grading only.*

ENTR 6909 - Departmental Thesis

Units: 1-4

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a faculty committee at least one of whom must be a Cal State East Bay faculty member.

Economics

ECON 1000 - Economics of Public Issues

Units: 4

An introduction to economics with a focus on using economic analysis to examine current social, political, and global issues. Topics covered may include pollution, health care, crime, poverty, unemployment, and inflation. Designed for non-business and economics majors. **Credit Restrictions:** Not open to students with credit for ECON 1888, ECON 2301, or ECON 2302.

ECON 2301 - Principles of Microeconomics

Units: 4

Basic micro-economic concepts; introductory analysis of the determination of prices and output in different market situations; public policy. **Prerequisites:** *Sophomore standing and satisfactory score on the Entry-Level Math (ELM) Test.*

ECON 2302 - Principles of Macroeconomics

Units: 4

Basic macro-economic concepts; introductory analysis of the determination of national income and employment; money and banking; fiscal policy in a global context. **Prerequisites:** *Sophomore standing and satisfactory score on the Entry-Level Math (ELM) Test.*

ECON 3000 - Micro-Economic Theory

Units: 4

Analysis of supply and demand; production and costs; price and output determination; factor pricing and income distribution; optimum resource allocation. **Prerequisites:** *STAT 2010 or STAT 1000; MATH 1130 and ECON 2301 with grade not lower than a "C"*.

ECON 3001 - Micro-Economic Theory II

Units: 4

Market structure, externalities and public goods, game theory, information economics. **Prerequisites:** *ECON 3000*.

ECON 3005 - Macro-Economic Theory

Units: 4

Measurement and analysis of the determination of national income and employment; general price level; stabilization and growth. **Prerequisites:** *ECON 2301, 2302, with a grade not lower than "C" in ECON 2302*.

Credit Restrictions: Not open to students with credit for ECON 3006.

ECON 3006 - Macro-Economics for Business

Units: 4

Current topics such as inflation, employment and unemployment, interest rates, exchange rates, the business cycle, and macroeconomic policies presented in a manner most useful for business students or any student interested in real-world economic issues. **Prerequisites:** *ECON 2301, 2302, with a grade not lower than "C" in ECON 2302*. **Credit Restrictions:** Not open to students with credit for ECON 3005.

ECON 3107 - Global Economic Analysis

Units: 4

Analysis of the microeconomics and macroeconomics of global trade, growth, development, investment, foreign exchange markets, international capital movements, global competitiveness, international treaties and laws. **Prerequisites:** *ECON 2301, ECON 2302, with a grade not lower than a "C" in both courses*. **Credit Restrictions:** Not open to students with credit for ECON 4700 or ECON 4705.

ECON 3140 - Engineering Economy

Units: 4

(See ENGR 3140 for course description.)

ECON 3170 - History of Economic Thought

Units: 4

The key theories and individuals in the history of economic thought including Adam Smith, David Ricardo, and Karl Marx. **Prerequisites:** *ECON 2301 and ECON 2302*.

ECON 3200 - Comparative Economic Systems

Units: 4

Comparative study of different economic systems proposed or used to deal with the economic organization of society. **Prerequisites:** *ECON 2301*.

ECON 3310 - Money, Banking, and Financial Intermediaries

Units: 4

Essentials of commercial and central banking; financial intermediaries; monetary policy. **Prerequisites:** *ECON 2302*.

ECON 3370 - Public Sector Economics

Units: 4

Public sector economics; taxation, welfare economics, public goods, the rationale of government activity and collective choice. **Prerequisites:** *ECON 2301 and ECON 2302*.

ECON 3375 - Public Choice: The Economics of Politics

Units: 4

Economic theory applied to political institutions and decision-making within governments. Allocations under various property right systems; coalitions and voting behavior; theory of constitutions; theory of bureaucracy; political economy of income redistribution, crime, violence, discrimination, federalism, nationalism, anarchy. **Prerequisites:** *ECON 2301*.

ECON 3500 - Urban Economics

Units: 4

Economic analysis of the forces determining an urban area's income, employment, land use, industrial structure, and public sector. Applications to issues such as housing, central city-suburban relationships, transportation, and neighborhood economic development. **Prerequisites:** *ECON 2301*.

ECON 3551 - Managerial Economics and Business Strategy

Units: 4

The actions and reactions of business firms and consumers in a variety of market environments, emphasizing their strategies for optimization. Course not recommended for Economics majors. **Prerequisites:** *ECON 2301, STAT 2010 or STAT 1000 and MATH 1810 or MATH 1304*.

ECON 3555 - Economics of Innovation and Intellectual Property

Units: 4

Examination of the conditions and mechanisms that promote firms to undertake research and development. Topics include IP licensing, network effects and standards, the role of the U.S. patent

system, alternative incentive mechanisms, technological diffusion, and the U.S. copyright system.

Prerequisites: *ECON 3000 and ECON 3001; or, non-majors may substitute ECON 3000 and ECON 3001 with ECON 3551.*

ECON 3560 - Economics of Information and Organizations

Units: 4

Introduction to information economics as it pertains to issues in management and governance.

Application of agency theory, positive/adverse selection, rent-seeking, and learning models to the optimal design of incentives and organizations. Explanation of monitoring mechanisms in the US financial system (investment banks, rating agencies, regulators) and the evolution of corporate structures, business models, and entrepreneurship. **Prerequisites:** *ECON 2301, MATH 1810, STAT 2010 or equivalents.* **Grading:** *A-F grading only.*

ECON 3680 - Labor Economics

Units: 4

Economic analysis of labor markets, including wages and wage determination, investments in human capital, employment and unemployment. **Prerequisites:** *ECON 2301.*

ECON 3690 - Health Economics and Public Policy

Units: 4

Economics of health and healthcare. Application of economic theories to public policy in health sector. Cost analysis, healthcare financing, public and private health insurance, and provider reimbursement models. Analysis of medical education, hospital, pharmaceutical, mental health, and long-term care markets. **Prerequisites:** *ECON 2301, HSC 3300.* **Cross-listed:** *HSC 3690.* **Grading:** *A-F grading only.*

ECON 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities within the quarter enrolled. **Prerequisites:** *At least 2.0 GPA: departmental approval of activity.* **Credit Restrictions:** *Not for credit toward the Economics major or minor.* **Grading:** *CR/NC grading only.*

ECON 3999 - Issues in Economics

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in economics.

ECON 4000 - Mathematical Economics

Units: 4

Application of linear algebra, differential calculus, and probability theory to microeconomic analysis. Topics include market equilibrium, properties of production functions, uncertainty, optimization methods,

and comparative static analysis. **Prerequisites:** *ECON 3000 or ECON 3551; MATH 1810 or MATH 1304; STAT 2010 or STAT 1000.*

ECON 4306 - Environmental Economics

Units: 4

Readings, reports and discussion on economic aspects of environmental problems and alternative proposed solutions: pollution, congestion, population. **Prerequisites:** *ECON 2301.*

ECON 4315 - Monetary Theory

Units: 4

Review of current literature on the demand for and supply of money; effects of monetary policy on inflation, unemployment, interest rates, and balance of payments. **Prerequisites:** *ECON 3310.*

ECON 4400 - Introduction to Econometrics

Units: 4

Applications of statistical techniques to obtain quantitative estimates of relationships suggested by economic analysis. **Prerequisites:** *ECON 2301, ECON 2302; STAT 2010 or STAT 1000.*

ECON 4520 - Industrial Organization and Public Policy

Units: 4

Factors determining industrial organization and economic behavior; operation of antitrust laws; public regulation. **Prerequisites:** *ECON 3000 or ECON 3551.*

ECON 4590 - Selected Topics in Economic Analysis

Units: 4

Application of economic analysis to past/contemporary economic issues. **Prerequisites:** *ECON 2301 or ECON 2302; see current class schedule for which course is required.*

ECON 4700 - International Trade

Units: 4

Comprehensive coverage of the modern theory of international trade, foreign investment, the nature and effects of protection, multinational enterprise, world economic growth and international trading systems. **Prerequisites:** *ECON 2301, ECON 2302.*

ECON 4705 - International Finance

Units: 4

Comprehensive coverage of the organization, operation and theory of foreign exchange markets, Eurocurrency and offshore financial markets, balance of payments and international adjustment,

international capital flows and different types of international monetary systems. **Prerequisites:** *ECON 2301, ECON 2302* **Credit Equivalency:** (formerly ECON 4105).

ECON 4710 - International Economic Development

Units: 4

Analyze the factors and theories underlying international economic development with a concentration on the nature and causes of development in Africa, Asia, Central and South America. **Prerequisites:** *ECON 2301* **Credit Equivalency:** (formerly ECON 4110).

ECON 4895 - Workshop in Economic Research

Units: 1

Workshop activity in the preparation, presentation, and evaluation of student and faculty research projects. **Prerequisites:** *At least junior standing.*

ECON 4896 - Senior Research

Units: 1

Development of an economic research paper that demonstrates the ability to: 1) think critically, analytically, and creatively; 2) gather, recognize, interpret, and communicate data. **Prerequisites:** *ECON 3000 or ECON 3551, ECON 3005 or ECON 3006, STAT 2010 or STAT 1000.*

ECON 4900 - Independent Study

Units: 1-4

Economics: Graduate

Students who are not graduate students in the College of Business and Economics must consult with the instructor before registering for a graduate course in Economics.

ECON 6101 - Seminar: Micro-Economic Theory I

Units: 4

First of two-quarter sequence: Selected topics in periodical literature in consumer behavior; price determination; and resource allocation patterns in a decentralized economy.

ECON 6102 - Seminar: Micro-Economic Theory II

Units: 4

Second of two-quarter sequence: Selected topics in periodical literature in general equilibrium; welfare theory and economic efficiency; capital theory.

ECON 6105 - Seminar: Macro-Economic Theory

Units: 4

Develops the tools of modern macroeconomics for an understanding of the macroeconomics literature. Topics include growth theory; Keynesian and modern micro-based theories of economic fluctuations; unemployment, monetary policy and fiscal policy.

ECON 6200 - Seminar: Comparative Economic Systems

Units: 4

Selected problems and approaches to resource allocation, income distribution, economic development, and planning in alternative economic systems.

ECON 6205 - Market Design: The Economics of Business Opportunities

Units: 4

Introduction to ways in which business opportunities can be identified and exploited by envisioning and creating new markets. Inefficiencies as potential sources of value. Market design: trading platforms, financial innovations, matching mechanisms, auctions, incentive systems as internal markets, etc. **Prerequisites:** Graduate standing or consent of instructor. **Grading:** A-F grading only.

ECON 6215 - Economics for Managers in a Global Economy

Units: 4

Economics for business managers - economic systems; supply, demand, prices and decision making in a global economy; interest rates and the value of currencies; the money supply process, business cycles, and inflation; market structures and production decisions; long-term economic growth determinants.

Prerequisites: All CBE and University proficiencies, including the UWSR; All MBA Fundamental Courses. **Credit Restrictions:** Not for credit in the MA Economics degree or certificate. **Grading:** A-F grading only.

ECON 6225 - Corporate Governance and Entrepreneurship

Units: 4

Design of governance and incentive systems that maximize organization performance and minimize the cost of funds. Economic evidence on returns to entrepreneurship and unique issues new firms face.

Corporate history including failures and relevant aspects of the financial system. **Prerequisites:** Graduate standing or consent of instructor. **Grading:** A-F grading only.

ECON 6250 - Seminar: Project Analysis

Units: 4

Benefit-cost analysis applied to resource allocation and planning. Applications to such areas as education, manpower programs, medical care, transportation, and non-profit enterprises.

ECON 6315 - Seminar: Monetary Theory

Units: 4

Review of periodical literature on static and dynamic issues of the supply and demand for money.

ECON 6370 - Seminar: Public Sector Economics

Units: 4

Economic analysis as applied to the public sector including public finance, welfare economics, public expenditure evaluation, theories of taxation, analysis of the U.S. tax structure, public choice, and policy issues.

ECON 6400 - Seminar: Econometrics

Units: 4

Statistical analysis of economic relationships. Regression analysis and simple time series analysis in economic applications.

ECON 6501 - Seminar: Urban and Regional Economics

Units: 4

Analysis of the structure of cities and the economies of regions. Explores why industries cluster geographically, where firms produce, where people live, and how urban or regional policies change local economies and affect poverty and other urban problems.

ECON 6511 - Advanced Applied Econometrics

Units: 4

Applied Statistical Models, including multiple regression, simultaneous equation models, time series models, and logistic regression/binary choice models. **Cross-listed:** STAT 6511. **Grading:** A-F grading only.

ECON 6520 - Seminar: Industrial Organization and Public Policy

Units: 4

Selected topics in industrial organization and public policy including antitrust policy.

ECON 6555 - Seminar: Economics of Innovation and Intellectual Property

Units: 4

Examination of the conditions and mechanisms that promote firms to undertake research and development. Topics include IP licensing, network effects and standards, the role of the U.S. patent system, alternative incentive mechanisms, technological diffusion, and the U.S. copyright system.

ECON 6680 - Seminar: Labor Economics

Units: 4

Theoretical and empirical analysis of labor market operations with applications to public policy. Topics

include investment in human capital, wages and wage determination, labor supply, employment and unemployment.

ECON 6710 - Seminar: International Economic Development

Units: 4

Selected topics in the theory and practice of international economic development with a focus on the nature and causes of development in specific areas and nations of the world.

ECON 6896 - Research Methods

Units: 5

Research methodologies, data analysis, and report writing. Provides students with analytic and research tools to increase their capacity to pose, answer, and critically evaluate research questions. Culminates in research project that synthesizes research methods, statistical analysis, and reporting of empirical results.

ECON 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities within the quarter enrolled. **Repeatability:** May be repeated for credit, for a maximum of 8 units. **Grading:** *CR/NC grading only.*

ECON 6900 - Independent Study

Units: 1-4

ECON 6910 - University Thesis

Units: 1-6

Development and writing of a formal research paper for submission to the University in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See also "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide).

Note: see Errata chapter in this catalog for minor change to this course.

ECON 6999 - Issues in Economics

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in economics. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Education: Interdisciplinary: Graduate

EDUI 5900 - Independent Study

Units: 1-4

EDUI 6002 - Animation for the Web

Units: 2

Introduction to Flash, an animation tool for the Web; covers the basic functions that permit the educator to include multimedia features in lessons and student productions. A Flash movie may use text, graphics, sounds, animation, buttons and fields. **Prerequisites:** *Graduate standing or consent of instructor.*

Repeatability: May be repeated for credit when content varies, for a maximum of 10 units.

EDUI 6005 - Digital Graphics

Units: 4

Introduction to several graphics programs such as Adobe Photoshop and Illustrator used in educational settings. Students learn to use the drawing tools in these applications to edit, create, and manipulate graphics and millions of colors. **Prerequisites:** *Graduate standing or consent of instructor.* **Repeatability:** May be repeated for credit when content varies, for a maximum of 20 units. Twelve hrs. lab.

EDUI 6098 - Designing Effective Multimedia Instruction

Units: 4

Effective design and development of multimedia material to promote optional interactivity, performance, and motivation. Evaluation of educational multimedia products, design and development of original software, and examination of research on electronic learning. **Prerequisites:** *TED 5099 or equivalent.*

EDUI 6110 - Web as an Interactive Educational Tool

Units: 4

Design of instructional delivery via the Internet based on a study of the range of Internet-student/interactions, application of appropriate learning strategies, the potential of recent developments in the design/development of instruction, advanced topics in multimedia design. **Prerequisites:** *EDUI 5007 or consent of instructor.*

EDUI 6120 - Distance Learning Technologies and Applications

Units: 4

Rationale for the use of and critical analysis of various types of distance learning technologies. Current transmission options for distance learning. Instructional strategies for teaching using distance technologies. **Prerequisites:** *Consent of instructor.*

EDUI 6150 - Current Issues in Educational Technology

Units: 4

Current topics related to the assimilation of technology and planning in education. **Prerequisites:** *Completion of at least 12 units of the Educational Technology program.*

EDUI 6200 - Learning Theories and the Design of E-learning Environments

Units: 4

Identification of developmental theories in social and cognitive psychology, focusing on the characteristics of development, the nature of learning, the social influence on development and learning, and the foundation provided by these theories for the design of instructional multimedia programs.

EDUI 6210 - Principles of Instructional Design

Units: 4

Instructional design theories and models in technology; application of design principles in the evaluation and creation of instructional materials including text; teacher-mediated instruction in multimedia.

Prerequisites: *Graduate standing or consent of instructor.*

EDUI 6240 - Curriculum and Instruction in Mathematics, Science, and Technology

Units: 4

Designed to improve teaching and learning in mathematics, science, and technology. Prepares students to design innovative, technology-based curriculum using sound pedagogical approaches for improving teaching in mathematics and science. **Prerequisites:** *Graduate standing or consent of instructor.*

EDUI 6250 - Reading Research and Evaluation

Units: 4

Introduction to Xcode, Objective-C, and the iPhone SDK to develop applications for educational purposes. Creation of View-based, Tab Bar, Split-view. Applications with Popover, Modal, adding audio and video, and Gestures. **Prerequisites:** EDUI 6005, EDUI 6110. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units. (Course content varies each quarter to cover latest innovations in iPad technology.)

EDUI 6280 - Mathematics, Science and Technology in Education

Units: 4

Improve student's teaching and learning in mathematics, science and technology by: (1) providing understanding of learning theories that support instruction in mathematics and science using technology and, (2) designing innovative, technology-based curriculum with a sound pedagogical approach.

Prerequisites: *Graduate standing or consent of instructor.*

EDUI 6300 - Culture and the Evolution of Educational Technology

Units: 4

Cultural contexts in which educational technologies are situated and the consequent impact on growth of such technologies. Application of postmodern, feminist and multicultural perspectives to examine technology within educational cultures. **Prerequisites:** *Graduate standing or consent of instructor.*

EDUI 6315 - Current Technologies in Education

Units: 2

Current educational technologies and their use in the classroom. **Prerequisites:** *EDUI 5007 or consent of instructor.* **Repeatability:** May be repeated two times for credit with consent of instructor (or department), for a maximum of 6 units.

EDUI 6350 - Educational Technology in the Teaching of Language and Social Studies

Units: 4

Focus on some of the challenges involved in language learning and teaching with technology, and social contexts in which educational technologies are situated and the consequent impact on growth of such technologies. **Prerequisites:** *Graduate standing or consent of instructor.*

EDUI 6400 - Educational Technology Planning for Innovation and Change

Units: 4

History of creative innovation and its effects on educational culture and thought. Critical examination of current innovative technologies for instruction at all levels, pre-school through professional. Strategies for instructional technology planning. **Prerequisites:** *EDUI 6210 or consent of instructor.*

EDUI 6420 - Technology Internship

Units: 4

Professional experience working with technology for one quarter with an educational or business organization. **Prerequisites:** *Advisor's approval.*

EDUI 6500 - Research in Educational Technology

Units: 4

Fundamental concepts in qualitative and quantitative research designs and program evaluation in Educational Technology. Statistical tools and procedures for data analysis and interpretation. Preparation of research proposal for project or thesis. **Prerequisites:** *EDUI 6400 or consent of instructor.*

EDUI 6600 - Educational Interface Design

Units: 4

Current developments in cognitive science related to instructional technology. Human brain organization, the influence of environment upon memory and problem solving, how these issues can provide a foundation for progressive educational technology leaders. **Prerequisites:** *Consent of instructor.*

EDUI 6701 - Introduction to Online Teaching and Learning

Units: 4.5

Design and delivery of online coursework with consideration of principles of teaching and learning, the

virtual classroom, synchronous vs. asynchronous teaching and learning, copyright and fair use, accessibility, appropriate learning strategies in on-ground and online classes, potential for interactivity, and contrast between the principles and practices of on-ground and online teaching and learning.

EDUI 6702 - Teaching Models for Online Instruction

Units: 4.5

Teaching models and their relationship to curriculum development, to student learning, to assessment, and to learning psychology. Special attention to the application of models of teaching to online instruction, different learning styles, various teaching and learning situations, needs of learners with accessibility issues, and limitations of current technologies. **Prerequisites:** *EDUI 6701*

EDUI 6703 - Technology Tools for Online Instruction

Units: 4.5

Design and construction of online environments for teaching and learning. Attention to platform, browser, system differences and limitations as well as to synchronous, asynchronous, and web-based delivery systems. Differences among online delivery providers, emphasis on maximum accessibility. **Prerequisites:** *EDUI 6701, EDUI 6702.*

EDUI 6704 - Designing Curriculum for Online Instruction

Units: 4.5

Incorporating on-ground and online teaching strategies and concepts into the design of an online course, including objectives, assignments, assessment, collaboration, participation, and course materials. Models of teaching and learning outcomes in on-ground and online courses. Practice in linking appropriate teaching models and designated learning outcomes with attention to differing learning styles.

Prerequisites: *EDUI 6701, EDUI 6702, EDUI 6703.*

EDUI 6705 - Educational Planning and Development for Online Programs

Units: 4.5

History of innovation in education and its effect on educational culture and thought. Organizational and managerial issues, problems, decision-making and solutions for successful implementation of online programs. Solutions to educational problems common to on-ground and online teaching environments as well as consideration of educational problems unique to online education such as intensive faculty development and support. **Prerequisites:** *EDUI 6701, EDUI 6702, EDUI 6703, and EDUI 6704*

EDUI 6706 - Research in Online Teaching and Learning

Units: 4.5

Research methods in education, both quantitative and qualitative, with attention to sources, collection, and uses of data. Critical analysis of research on online teaching and learning. Preparation of a research project to include references, rationale, and outline. Offered collaboratively with library staff. Satisfies the

University Writing Skills. **Prerequisites:** EDUI 6701, EDUI 6702, EDUI 6703, and EDUI 6704. Requirement only for M.S. Education, Option in Online Teaching and Learning Students if passed with a "B" or better

EDUI 6707 - History and Culture of Online Learning Communities

Units: 4.5

The development of the cyberclassroom of today from both traditional distance learning correspondence courses and early networked virtual realities with attention to the history and culture of education. Evolution of on-ground and online teaching and learning roles, development of institutional responsibilities, and growth of degree, certificate, and enrichment programs. **Prerequisites:** EDUI 6701, EDUI 6702, EDUI 6703, and EDUI 6704

EDUI 6741 - Family, School, Community Collaborations

Units: 4

Provides school administrators, teachers, psychologists, and counselors with a knowledge base for promoting family-community-school partnerships which will increase student academic success among ethnically, linguistically, culturally, and economically diverse populations. Participants examine ecological theoretical perspectives, engage in systemic analyses of real-world family-school-community relationships, and explore characteristics of effective family-school partnership programs.

EDUI 6755 - Cultural Diversity in the Workplace

Units: 4

Theory and practice for working with diverse populations in organizations and school settings. Communication across cultures, developing programs and practices, and valuing diversity in organization.

EDUI 6772 - Content Development for Online Learning

Units: 4.5

Creating course materials specific to various learning environments: corporate, academic, military, industrial, enrichment, online and on-ground. Differences between training and education with emphasis on relevant teaching and learning strategies for each modality. Completion of online teaching components suitable to at least two different environments. **Prerequisites:** EDUI 6701, EDUI 6702, EDUI 6703, and EDUI 6704

EDUI 6773 - Supervising and Evaluating Online Teaching

Units: 4.5

Effective delivery of online materials within the context of educational theories of supervisory functions. Adaptation of techniques, including clinical supervision, for promoting and supporting teacher growth and development in the online environment. Online mentoring of new online teachers. **Prerequisites:** EDUI 6701, EDUI 6702, EDUI 6703, and EDUI 6704

EDUI 6774 - Current Issues in Online Learning

Units: 4.5

Controversies, problems, and promises of online teaching and learning, including examination of the role of gender, class, race in online teaching and learning, the potential impact of corporate influences on traditional educational paradigms, and the future of both online and on-ground education. **Prerequisites:** *EDUI 6701, EDUI 6702, EDUI 6703, and EDUI 6704*

EDUI 6780 - Building the Online Environment

Units: 4.5

Designing and implementing an online teaching site, including assignments, interactivity, contact protocols, syllabus, course materials, and research and development resources for student use. Presentation of materials in various formats including PDF, Shockwave, Flash, and HTML. **Prerequisites:** *EDUI 6701, EDUI 6702, EDUI 6703, and EDUI 6704.*

EDUI 6781 - Creating Digital Media for Online Instruction

Units: 4.5

Making multimedia materials available in the online classroom with texts, images, sounds, videos, animations. Needs of students with accessibility challenges. **Prerequisites:** *EDUI 6701, EDUI 6702, EDUI 6703, and EDUI 6704.*

EDUI 6782 - Designing and Implementing User Interfaces for Online Instruction

Units: 4.5

Using principles of user interface, audience analysis, discourse communities, and educational psychology to design online educational sites which reflect the needs of teachers, learners, and the global community. The effectiveness of colors, images, animations, and interactivity to facilitate communication with online students. Accessibility issues will be stressed. **Prerequisites:** *EDUI 6701, EDUI 6702, EDUI 6703, and EDUI 6704.*

EDUI 6783 - Providing Interactivity in the Online Environment

Units: 4.5

Using latest and most sophisticated web resources to create learning environments that maximize interactivity, collaboration, document sharing, assessment, and access to multimedia materials. **Prerequisites:** *EDUI 6701, EDUI 6702, EDUI 6703, and EDUI 6704.*

EDUI 6899 - Project

Units: 2-5

Development of an original product (teaching project, implementation plan, program evaluation proposal) which is identified in the research course and summarized in a written abstract. Both the project and the abstract are submitted to the program faculty which specify their formats. Supervision by a faculty committee, at least one of whom must be a Cal State East Bay faculty member. **Prerequisites:** *EDUI 6500 or EDUI 6705 and Advancement to Candidacy. Maximum of five units per student.*

EDUI 6900 - Independent Study

Units: 1-4

EDUI 6909 - Departmental Thesis

Units: 2-5

Development and writing of a research paper (on a topic identified in EDUI 6500) submitted to Interdisciplinary Studies program faculty which specifies its format. Supervision by an Interdisciplinary Studies committee, at least one of whom must be a Cal State East Bay faculty member. Required presentation of thesis to program faculty and colleagues. **Prerequisites:** *EDUI 6500 and Advancement to Candidacy. Maximum of five units per student.*

EDUI 6910 - University Thesis

Units: 4-5

Developmental writing of a formal research paper on online teaching and learning for submission to the university in a specified format. Supervised by an EDUI committee, at least one of whom must be a Cal State East Bay faculty member. Defense normally required. **Prerequisites:** *EDUI 6701, EDUI 6702, EDUI 6703, and EDUI 6704, and graduate standing.*

EDUI 6999 - Issues in Education Interdisciplinary Studies

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in education interdisciplinary studies. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Education: Online Teaching and Learning

OTL 6701 - Introduction to Online Teaching and Learning

Units: 4.5

Design and delivery of online coursework with consideration of principles of teaching and learning, the virtual classroom, synchronous vs. asynchronous teaching and learning, copyright and fair use, accessibility, appropriate learning strategies in on-ground and online classes, potential for interactivity, and contrast between the principles and practices of on-ground and online teaching and learning.

OTL 6702 - Teaching Models for Online Instruction

Units: 4.5

Teaching models and their relationship to curriculum development, to student learning, to assessment, and to learning psychology. Special attention to the application of models of teaching to online instruction, different learning styles, various teaching and learning situations, needs of learners with accessibility issues, and limitations of current technologies. **Prerequisites:** OTL 6701.

OTL 6703 - Technology Tools for Online Instruction

Units: 4.5

Design and construction of online environments for teaching and learning. Attention to platform, browser, system differences and limitations as well as to synchronous, asynchronous, and web-based delivery systems. Differences among online delivery providers, emphasis on maximum accessibility. **Prerequisites:** OTL 6701, OTL 6702.

OTL 6704 - Designing Curriculum for Online Instruction

Units: 4.5

Incorporating on-ground and online teaching strategies and concepts into the design of an online course, including objectives, assignments, assessment, collaboration, participation, and course materials. Models of teaching and learning outcomes in on-ground and online courses. Practice in linking appropriate teaching models and designated learning outcomes with attention to differing learning styles.

Prerequisites: OTL 6701, OTL 6702, OTL 6703.

OTL 6705 - Educational Planning and Development for Online Programs

Units: 4.5

History of innovation in education and its effect on educational culture and thought. Organizational and managerial issues, problems, decision-making and solutions for successful implementation of online programs. Solutions to educational problems common to on-ground and online teaching environments as well as consideration of educational problems unique to online education such as intensive faculty development and support. **Prerequisites:** OTL 6701, OTL 6702, OTL 6703, OTL 6704.

OTL 6706 - Research in Online Teaching and Learning

Units: 4.5

Research methods in education, both quantitative and qualitative, with attention to sources, collection, and uses of data. Critical analysis of research on online teaching and learning. Preparation of a research project to include references, rationale, and outline. Offered collaboratively with library staff. *Satisfies the University Writing Skills Requirement only for M.S. Education, Option in Online Teaching and Learning Students if passed with a "B" or better.* **Prerequisites:** OTL 6701, OTL 6702, OTL 6703, OTL 6704.

OTL 6707 - History and Culture of Online Learning Communities

Units: 4.5

The development of the cyberclassroom of today from both traditional distance learning correspondence courses and early networked virtual realities with attention to the history and culture of education. Evolution of on-ground and online teaching and learning roles, development of institutional responsibilities, and growth of degree, certificate, and enrichment programs. **Prerequisites:** OTL 6701, OTL 6702, OTL 6703, OTL 6704.

OTL 6772 - Content Development for Online Learning

Units: 4.5

Creating course materials specific to various learning environments: corporate, academic, military, industrial, enrichment, online and on-ground. Differences between training and education with emphasis on relevant teaching and learning strategies for each modality. Completion of online teaching components suitable to at least two different environments. **Prerequisites:** OTL 6701, OTL 6702, OTL 6703, OTL 6704.

OTL 6773 - Supervising and Evaluating Online Teaching

Units: 4.5

Effective delivery of online materials within the context of educational theories of supervisory functions. Adaptation of techniques, including clinical supervision, for promoting and supporting teacher growth and development in the online environment. Online mentoring of new online teachers. **Prerequisites:** OTL 6701, OTL 6702, OTL 6703, OTL 6704.

OTL 6774 - Current Issues in Online Learning

Units: 4.5

Controversies, problems, and promises of online teaching and learning, including examination of the role of gender, class, race in online teaching and learning, the potential impact of corporate influences on traditional educational paradigms, and the future of both online and on-ground education. **Prerequisites:** OTL 6701, OTL 6702, OTL 6703, OTL 6704.

OTL 6780 - Building the Online Environment

Units: 4.5

Designing and implementing an online teaching site, including assignments, interactivity, contact protocols, syllabus, course materials, and research and development resources for student use. Presentation of materials in various formats including PDF, Shockwave, Flash, and HTML. **Prerequisites:** OTL 6701, OTL 6702, OTL 6703, OTL 6704.

OTL 6781 - Creating Digital Media for Online Instruction

Units: 4.5

Making multimedia materials available in the online classroom with texts, images, sounds, videos, animations. Needs of students with accessibility challenges. **Prerequisites:** OTL 6701, OTL 6702, OTL 6703, OTL 6704.

OTL 6782 - Designing and Implementing User Interfaces for Online Instruction

Units: 4.5

Using principles of user interface, audience analysis, discourse communities, and educational psychology to design online educational sites which reflect the needs of teachers, learners, and the global community. The effectiveness of colors, images, animations, and interactivity to facilitate communication with online

students. Accessibility issues will be stressed. **Prerequisites:** OTL 6701, OTL 6702, OTL 6703, OTL 6704.

OTL 6783 - Providing Interactivity in the Online Environment

Units: 4.5

Using latest and most sophisticated web resources to create learning environments that maximize interactivity, collaboration, document sharing, assessment, and access to multimedia materials.

Prerequisites: OTL 6701, OTL 6702, OTL 6703, OTL 6704.

OTL 6899 - Project

Units: 2-5

Development of an original product (teaching project, implementation plan, program evaluation proposal) which is identified in the research course and summarized in a written abstract. Both the project and the abstract are submitted to the program faculty which specify their formats. Supervision by a faculty committee, at least one of whom must be a Cal State East Bay faculty member. **Prerequisites:** Advancement to Candidacy. **Grading:** A-F grading only.

OTL 7801 - Introduction to Online Teaching and Learning

Units: 4.5

Design and delivery of online coursework with consideration of principles of teaching and learning, the virtual classroom, synchronous vs. asynchronous teaching and learning, copyright and fair use, accessibility, appropriate learning strategies in onground and online classes, potential for interactivity, and contrast between the principles and practices of onground and online teaching and learning. (For students in OTL Certificate program only)

OTL 7802 - Models for Online Instruction

Units: 4.5

Teaching models and their relationship to curriculum development, to student learning, to assessment, and to learning psychology. Special attention to the application of models of teaching to online instruction, different learning styles, various teaching and learning situations, needs of learners with accessibility issues, and limitations of current technologies. (For students in OTL Certificate program only)

Prerequisites: OTL 7801.

OTL 7803 - Technology Tools for Online Instruction

Units: 4.5

Design and construction of online environments for teaching and learning. Attention to platform, browser, system differences and limitations as well as to synchronous, asynchronous, and web-based delivery systems. Differences among online delivery providers, emphasis on maximum accessibility. (For students in OTL Certificate program only) **Prerequisites:** OTL 7801, OTL 7802.

OTL 7804 - Designing Curriculum for Online Instruction

Units: 4.5

Incorporating onground and online teaching strategies and concepts into the design of an online course, including objectives, assignments, assessment, collaboration, participation, and course materials. Models of teaching and learning outcomes in onground and online courses. Practice in linking appropriate teaching models and designated learning outcomes with attention to differing learning styles. (For students in OTL Certificate program only) **Prerequisites:** OTL 7801, OTL 7802, OTL 7803.

Educational Leadership

EDLD 6000 - Introduction to Educational Leadership

Units: 4

Introductory seminar that includes legal, fiscal and administrative basis for school organization; leadership theories; the governance and relationship of local school districts with county, state, federal agencies and other political entities.

EDLD 6010 - Site Practicum I

Units: 2

Group supervision of a one-quarter field-based practicum focusing on the leadership roles of teachers in schools. Regularly scheduled seminars.

EDLD 6011 - Site Practicum II

Units: 2

Group supervision of a one-quarter field-based practicum focusing on the leadership skills needed by teacher leaders schools. Regularly scheduled seminars.

EDLD 6012 - Site Practicum III

Units: 2

Group supervision of a one-quarter field-based practicum focusing on teachers leading change processes in schools. Regularly scheduled seminars.

EDLD 6020 - Research in Education

Units: 4

Seminar in methods and procedures of research tools in education; sources and uses of data. Critical analysis of published research; preparation of a research project to include references, rationale, and outline.

EDLD 6025 - Research Practicum I

Units: 2

Group supervision of a one-quarter field-based practicum focusing on school site needs assessment. Regularly scheduled seminars. **Co-requisites:** *Concurrent enrollment in EDDL 6720.*

EDLD 6026 - Research Practicum II

Units: 2

Group supervision of a one-quarter field-based practicum experience in designing and using a variety of data collection methods. Regularly scheduled seminars. **Co-requisites:** *Concurrent enrollment in EDDL 6020.*

EDLD 6027 - Research Practicum III

Units: 2

Group supervision of a one-quarter field-based practicum experience emphasizing data analysis and presentation. Regularly scheduled seminars. **Co-requisites:** *Concurrent enrollment in EDDL 6908.*

EDLD 6124 - Teacher Leadership for Equity and Change

Units: 2

Examination of the roles and processes that teachers can lead in the school change process to address equity and race. Development of skills to analyze various forms of school measures to determine equity of results.

EDLD 6201 - Research Seminar

Units: 1

Research issues and methodology for school site inquiry. Online instruction, threaded conversations, and seminars will guide and extend individual research initiatives, establish critical review pairings, and focus master's cohort commentary on selected issues of research and school leadership. **Repeatability:** May be repeated two times for credit, for a maximum of 3 units.

EDLD 6400 - Instructional Leadership

Units: 4

Critical analysis of the nature of effective instruction for all students. Learning theories, teaching/learning styles, classroom management, assessing pupil progress, helping teachers meet individual and group needs, basic classroom observation techniques for instructional improvement, and laws affecting instruction.

EDLD 6410 - Supervision and Staff Development

Units: 4

Theory of supervisory functions. Survey of techniques that provide for staff development with emphasis on clinical supervision. Systematic planning and procedures in design and delivery of in-service training programs.

EDLD 6550 - School Site Leadership and Organizational Behavior

Units: 4

Basic operational tools and procedures for prospective principals. Situational analysis of administrative problems via application of behavioral science theories and concepts. **Prerequisites:** *Graduate standing and one year teaching experience.*

EDLD 6610 - Service-Learning for School Leaders

Units: 3

Designed to provide leaders with understanding of service learning teaching and strategies to manage and empower service learning in school sites and districts.

EDLD 6620 - Executive Communications for School Leaders

Units: 3

Writing skills to be assessed and developed include planning, drafting, editing, revising and presenting written communications (memos, letters, reports) to various audiences (faculty, parents, policy makers). The class will also examine, develop and present at least one targeted oral presentation. **Grading:** *A-F grading only.*

EDLD 6650 - Educational Law for Equity

Units: 4

Course Content: Legal aspects of school operation for beginning administrators. Overview of forces which shape legislative provisions; case law at local, state and national levels. District policy and practices related to law. Special focus is placed on examining the impact of legislations, public policy and case law on students by race, class, culture or language.

EDLD 6675 - School Finance and Human Resources for Equity

Units: 4

Fiscal aspects of school operation for beginning administrators. Overview of forces which shape school funding patterns at local, state and national levels. District policy and practices related to school finance. Special emphasis is placed on developing a vision and values that support the use of resources for equity as evidenced by equitable student outcomes.

EDLD 6720 - Solving School Problems through the Application of Research

Units: 4

Identifying and interpreting research, including action research, on specific school problems. Application of findings to solution of these problems. Influence of research, including action research, on educational practices. Required course to complete M.S. in Educational Leadership.

EDLD 6730 - School Administrators' Application of Computer Technology

Units: 3

Identification of school management issues which can be addressed through computer technology/software packages. Use of software packages for school administrative functions such as scheduling, budgeting, and attendance. Problem-solving practice.

EDLD 6770 - Group Facilitation for School Leaders

Units: 2

Major topics to be covered include: defining facilitation; examining tensions between facilitation and various forms of leadership; strategies for working effectively with small and large groups; practices for creating powerful conditions for team work; skills in creating and maintaining visual records; process strategies for guiding groups across a range of tasks.

EDLD 6801 - Fieldwork I

Units: 4

Supervised experiences in selected areas of administration/supervision, generally in a school setting, but other community agencies may be used. Regular reports and conference required. **Grading:** *CR/NC grading only.*

EDLD 6802 - Fieldwork II

Units: 4

Supervised experiences in selected areas of administration/supervision, generally in a school setting, but other community agencies may be used. Regular reports and conference required. **Grading:** *CR/NC grading only.*

EDLD 6803 - Fieldwork III

Units: 4

Supervised experiences in selected areas of administration/supervision, generally in a school setting, but other community agencies may be used. Regular reports and conference required. **Grading:** *CR/NC grading only.*

EDLD 6804 - Internship Fieldwork

Units: 6

Sequential supervised experiences in most areas of administration/supervision for candidates serving as part-time or full-time administrators on an Internship Credential. Regular reports and conferences required. **Grading:** *CR/NC grading only.*

EDLD 6805 - Internship Fieldwork

Units: 6

Sequential supervised experiences in most areas of administration/supervision for candidates serving as

part-time or full-time administrators on an Internship Credential. Regular reports and conferences required. **Grading:** *CR/NC grading only.*

EDLD 6806 - Internship Fieldwork

Units: 6

Sequential supervised experiences in most areas of administration/supervision for candidates serving as part-time or full-time administrators on an Internship Credential. Regular reports and conferences required. **Grading:** *CR/NC grading only.*

EDLD 6814 - Internship Seminar

Units: 1

Intensive studies designed to help integrate each candidate's sequential internship fieldwork experiences with coursework and deal with issues common to initial administrative positions. **Grading:** *CR/NC grading only.*

EDLD 6815 - Internship Seminar

Units: 1

Intensive studies designed to help integrate each candidate's sequential internship fieldwork experiences with coursework and deal with issues common to initial administrative positions. **Grading:** *CR/NC grading only.*

EDLD 6816 - Internship Seminar

Units: 1

Intensive studies designed to help integrate each candidate's sequential internship fieldwork experiences with coursework and deal with issues common to initial administrative positions. **Grading:** *CR/NC grading only.*

EDLD 6817 - Assessment, Mentoring, and Support Practicum I

Units: 3

A two-year, advanced professional practicum sequence. Individual candidate assessment and planning for professional development. Design of individual professional growth and support plan with school district and university mentors, on-site visits and observations, and monthly colloquia. **Prerequisites:** *Consent of advisor.* **Grading:** *CR/NC grading only.*

EDLD 6818 - Assessment, Mentoring, and Support Practicum II

Units: 3

A two-year, advanced professional practicum sequence. Individual candidate assessment and planning for professional development. Design of individual professional growth and support plan with school district

and university mentors, on-site visits and observations, and monthly colloquia. **Prerequisites:** *Consent of advisor.* **Grading:** CR/NC grading only.

EDLD 6819 - Assessment, Mentoring, and Support Practicum III

Units: 3

A two-year, advanced professional practicum sequence. Individual candidate assessment and planning for professional development. Design of individual professional growth and support plan with school district and university mentors, on-site visits and observations, and monthly colloquia. **Prerequisites:** *Consent of advisor.* **Grading:** CR/NC grading only.

EDLD 6822 - Practicum Seminar II

Units: 3

Group supervision of a one-year, advanced fieldwork practicum sequence. Regularly scheduled seminars, on-site visits, and observations with school district administrators and district and university mentors. Individual assessment and design of professional growth plan. **Grading:** *CR/NC grading only.*

EDLD 6823 - Practicum Seminar III

Units: 3

Group supervision of a one-year, advanced fieldwork practicum sequence. Regularly scheduled seminars, on-site visits, and observations with school district administrators and district and university mentors. Individual assessment and design of professional growth plan. **Grading:** *CR/NC grading only.*

EDLD 6831 - Assessment, Coaching and Support Practicum I

Units: 3

A two-year, advanced professional practicum sequence. Individual candidate assessment and planning for professional development. Design of individual professional growth and support plan with school district and university coaches, on-site visits and observations, and monthly colloquia. **Prerequisites:** *Consent of advisor.* **Grading:** CR/NC grading only.

EDLD 6832 - Assessment, Coaching and Support Practicum II

Units: 3

A two-year, advanced professional practicum sequence. Individual candidate assessment and planning for professional development. Design of individual professional growth and support plan with school district and university coaches, on-site visits and observations, and monthly colloquia. **Prerequisites:** *Consent of advisor.* **Grading:** CR/NC grading only.

EDLD 6833 - Assessment, Coaching and Support Practicum III

Units: 3

A two-year, advanced professional practicum sequence. Individual candidate assessment and planning

for professional development. Design of individual professional growth and support plan with school district and university coaches, on-site visits and observations, and monthly colloquia. **Prerequisites:** *Consent of advisor.* **Grading:** CR/NC grading only.

EDLD 6860 - Developing an Inquiring Community

Units: 1

The first course in a three-quarter integrated series. Focus on developing community and inquiry methods such as action research. Based on five major themes: organizational and cultural environment; dynamics of strategic issues management; ethical and reflective leadership; analysis and development of public policy; management of information systems and human and fiscal resources. **Prerequisites:** *EDLD 6817, EDLD 6818, EDLD 6819 and consent of advisor.*

EDLD 6865 - Focus on Learning

Units: 1

The second course in a six-quarter integrated series. Focus on student, adult, and organizational learning. Based on five major themes: organizational and cultural environment; dynamics of strategic issues management; ethical and reflective leadership; analysis and development of public policy; management of information systems and human and fiscal resources. **Prerequisites:** *EDLD 6860 and consent of advisor.*

EDLD 6870 - Professional and Organizational Development

Units: 1

The third course in a six-quarter integrated series. Focus on the professional development of staff and parents and the development of communication and information systems in the school. Based on five major themes: organizational and cultural environment; dynamics of strategic issues management; ethical and reflective leadership; analysis and development of public policy; management of information systems and human and fiscal resources. **Prerequisites:** *EDLD 6865 and consent of advisor.*

EDLD 6875 - Political Social Context in Education

Units: 1

Focus on the role education leaders have influencing political, social, economic, legal and cultural context affecting education to improve education policies and practices. **Prerequisites:** *Consent of advisor.* **Grading:** ABC/NC grading only.

EDLD 6880 - Ethics and Integrity

Units: 1

Focus on issues of professionalism, ethics, integrity, justice and equity. Leadership students discuss the multiple stakeholders to whom they are responsible and strategies to support equitable student outcomes. **Prerequisites:** *Consent of advisor.* **Grading:** ABC/NC grading only.

EDLD 6885 - Managing an Organization and Developing a Collaborative Culture

Units: 1

Support education leaders in managing the organization to cultivate a safe and productive learning and working environment. Focus education leaders on strategies to shape a collaborative culture of teaching and learning informed by professional standards and focused on student and professional growth.

Prerequisites: *Consent of advisor.* **Grading:** ABC/NC grading only.

EDLD 6899 - Project

Units: 2-5

Development of an original product which is summarized in a written abstract. Both the project and abstract are submitted to department, which specifies their formats. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member.

EDLD 6900 - Independent Study

Units: 1-4

EDLD 6908 - Graduate Synthesis in Educational Leadership

Units: 4

Students synthesize their degree program experiences in coursework, fieldwork and research into a coherent framework for their own leadership role and plan their future professional development. Includes comprehensive exam.

EDLD 6909 - Departmental Thesis

Units: 2-5

Development and writing of a research paper for the submission to the department which specifies its format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense required.

EDLD 6910 - University Thesis

Units: 1-6

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense required. (See also, "University Thesis Writing Guide," available in Student Services and Administration Building, Suite 4500.)

Note: see Errata chapter in this catalog for minor change to this course.

EDLD 6999 - Issues in Educational Leadership

Units: 1-4

Readings, discussion, and research on contemporary and/or significant issues in educational leadership. May be repeated for credit when content varies, for a maximum of 8 units.

Educational Leadership: Doctoral

EDLD 8000 - Values and Purposes of Educational Leadership

Units: 2

Introduction to the doctoral program, with a focus on the purposes of educational leadership, goals of schooling, and current issues. Personal reflection and self-assessment of individual values, goals, and commitments. **Grading:** *A-F grading only.*

EDLD 8010 - Applied Study of Educational Issues I

Units: 3

Guided experience working in field to identify and analyze a relevant educational issue. Opportunity for project work under the direction of expert practitioner, including identification of knowledge gap or question of practice and formulation of a researchable focus. **Grading:** *A-F grading only.*

EDLD 8011 - Applied Study of Educational Issues II

Units: 2

Guided experience working in field to deepen leadership capacity related to specific area of practice. Opportunity for project work under the direction of expert practitioner, including integration into student's research focus. **Grading:** *A-F grading only.*

EDLD 8012 - Advanced Topics in Educational Leadership

Units: 3

Analysis and application of related literature on topical issues with broad implications for research and practice in educational leadership. **Grading:** *A-F grading only.*

EDLD 8020 - Leadership for Equity I

Units: 4

Socio-historical, socio-cultural, and social justice theories of addressing issues of diversity, equity and opportunity with a focus on underachieving populations and students of color. Leader's role and responsibility in developing evidence-based decision-making cultures that promote student achievement. **Grading:** *A-F grading only.*

EDLD 8021 - Leadership for Equity II

Units: 4

Advanced work with theories of social justice and equity, as well as data related to achievement gaps between White and Asian groups of students and Blacks and Hispanics. Leader's role in mobilizing and utilizing resources to dismantle patterns of inequity and exclusion. **Grading:** *A-F grading only.*

EDLD 8030 - Leadership in Systemic Reform

Units: 4

Concepts of individual and group leadership in educational institutions. Practices and policies of improving academic achievement and sustaining reform efforts in public schools. **Grading: A-F grading only.**

EDLD 8031 - Schools as Organizations: Linking Theory and Practice

Units: 4

Introduction to organizational theory as it applies to school systems; implications of technical/rational, human resource, and open systems perspectives; cultural and institutional theory as emerging analytic tools; implications for organization, management, leadership, and reform. **Grading: A-F grading only.**

EDLD 8032 - Sustainability of Educational Reform

Units: 4

Models and complexities of organizational reform; theoretical frameworks, concepts and analysis of dimensions of sustainability; the equitable and ethical sustaining of organizational programs focusing on the underachieving students; complex models of educational change; impacting entrenched organizational-cultural patterns; facilitating collaborative change. **Grading: A-F grading only.**

EDLD 8040 - Program Planning and Evaluation

Units: 4

Development of conceptual frameworks for evaluating systems to improve educational programs, educational systems, and educational policymaking. Integration of analytical and retrospective case studies that influence learning outcomes, student interventions and program improvement. **Grading: A-F grading only.**

EDLD 8041 - Leadership for Educational Accountability

Units: 4

Theoretical and analytical basis of school accountability systems; demonstrable effective organizational arrangements leading to equitable student outcomes; internal and external accountability processes and their use in data-driven planning. **Grading: A-F grading only.**

EDLD 8050 - Leadership in Curriculum and Instructional Reform

Units: 4

Theories and practices of curriculum and instruction in diverse school settings. Theories of cognition, learning, assessment and professional development for organizing schools around participation of diverse communities and cultures. **Grading: A-F grading only.**

EDLD 8060 - Leadership in Resource Management

Units: 4

Financing public education; acquisition and management of human, fiscal, information resources; equitable assets to effectively manage public education institutions; financial management, human resources and resolution of conflict. **Grading:** *A-F grading only.*

EDLD 8070 - Governance, Law and Policy Development

Units: 4

Public education policy development; forces that shape legislative provisions; legal frameworks for operating public schools in CA; legal ramifications of district policy and practices and their impact on leadership; case law at multiple levels and by race, class, culture, and language; community and governmental relations; working with boards and trustees, families, communities, businesses, local, state, and federal governmental agencies. **Grading:** *A-F grading only.*

EDLD 8071 - Governance and Policy Development

Units: 4

Distributed leadership in democratic schools; application of governance and policy tools in support of access and equity; dismantling institutional racism. **Grading:** *A-F grading only.*

EDLD 8080 - Conceptual Foundations of Research

Units: 4

Overview of research theory and design in multiple fields that influence educational policy and practices. Introduction to knowledge construction in socio-economic, community, political, and disciplinary contexts. **Grading:** *A-F grading only.*

EDLD 8081 - Qualitative and Quantitative Methods A

Units: 4

Examine theories of qualitative and quantitative research design. Explore uses, design and techniques of qualitative and quantitative research methodologies. Explore the appropriateness of research theories and methods in specific contexts. **Prerequisites:** *Admission to the Educational Leadership Doctoral Program; EDLD 8080.* **Grading:** *A-F grading only.*

EDLD 8082 - Qualitative and Quantitative Methods B

Units: 4

Continued examination and application of theoretical approaches to qualitative and quantitative research design. Refinement of related research skills and use of relevant tools. Identify appropriateness of research theories and methods in specific contexts. **Grading:** *A-F grading only.*

EDLD 8083 - Defining Educational Issues

Units: 4

Application of multidisciplinary theory in selection and definition of educational questions. Review of literature for specific educational issues. Initial design of an in-depth study of an educational issue.

Grading: *A-F grading only.*

EDLD 8084 - Applied Research Methods A

Units: 4

Application of foundational coursework in research to the design of an in-depth study of an education issue. Includes literature review, research design and methodology from ethical and theoretical perspectives. Assess and apply appropriate research methods in collection, analysis and synthesis of data.

Grading: *A-F grading only.*

EDLD 8085 - Applied Research Methods B

Units: 4

Application of foundational coursework in research to the design of an in-depth study of an education issue. Includes literature review, research design and methodology from ethical and theoretical perspectives. Assess and apply appropriate research methods in collection, analysis and synthesis of data.

Grading: *A-F grading only.*

EDLD 8086 - Dissertation Seminar

Units: 4

Develop a dissertation proposal that defines an educational policy and practices within a particular community; reviews professional literature from multiple disciplinary perspectives; and, designs an appropriate research methodology (including data collection tools) to study the issue. **Grading:** *A-F grading only.*

EDLD 8087 - Dissertation Studies

Units: 3

Ongoing, supported advising on dissertation study data collection, data analysis and reporting.

Repeatability: May be repeated for credit for a maximum of 12 units. **Grading:** *A-F grading only.*

EDLD 8900 - Independent Study

Units: 2-4

Interest- and needs-based seminars for small groups of candidates on topics related to dissertation development including (but not limited to): developing a literature review; completing Institutional Research Board processes and forms; advanced statistical analyses; etc. **Repeatability:** May be repeated for credit for a maximum of 8 units. **Grading:** *A-F grading only.*

Educational Psychology

EPSY 1001 - Career Planning for College Students

Units: 2

For students who are unclear about their career goals. Discussion, individual and small group activities designed to increase students' self-knowledge in terms of interests, abilities, and values, as well as information about the world of work and effective decision making techniques. **Grading:** CR/NC grading only. Approved to satisfy GE Area F.

EPSY 1020 - The Helping Relationship

Units: 4

Basic skills, attitudes, and resources necessary for non-licensed positions in the helping professions. Students will practice basic attending and responding skills, and gain insight into their own values, reaction patterns, and interpersonal styles. **Credit Restrictions:** Not open to students with credit for EPSY 3000. **Grading:** A-F grading only.

EPSY 2300 - Strategies for Lifespan Mental Health

Units: 4

Utilizing theory and research from mental health disciplines to develop strategies for maintaining psychological health and peak performance over the lifespan. The impact of relationships, self-concept, cognitions, emotions, spirituality, body image, and diverse cultural identities on mental health.

EPSY 3001 - Orientation to Careers in Counseling

Units: 4

Overview of counseling profession and different types of employment using counseling skills through self awareness activities; assists students with career/major choices. Survey of careers regarding counseling and skills required for marriage and family, career, school, rehabilitation and substance abuse counseling. **Grading:** A-F grading only.

EPSY 3555 - Introduction to Education for Social Justice

Units: 4

Exploration of education in a democratic society, and how social justice concerns have influenced efforts to promote equality, excellence, and social responsibility in schools. Designed for undergraduates interested in careers in the education helping professions. Primary focus will be learning about collaborative guidance interventions and programs that promote resilience and success for all students. **Prerequisites:** Upper Division Standing.

EPSY 3999 - Issues in Educational Psychology

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in educational psychology.

Educational Psychology: Graduate

EPSY 5021 - Introduction to Educating all Students in Diverse Classrooms

Units: 4

Basic concepts, issues and best practices in special/general education, and the development of curriculum and instructional strategies to address diverse student needs (including disabilities) in general education settings. **Grading: A-F grading only.**

EPSY 5125 - Educational Practices: Mild-Moderate Disabilities

Units: 4

Methods, materials, media and technology that enhance the learning process of students with mild-moderate disabilities. Teaching such students from diverse cultural, linguistic, and ethnic backgrounds in special and general education settings.

EPSY 5126 - Special Education Law and Program Design

Units: 4

Laws and regulations that affect the lives of individuals with disabilities and their families. These laws and regulations relate to program design, program evaluation, family involvement, and the overall IEP process.

EPSY 5136 - Educational Practices: Moderate-Severe Disabilities

Units: 4

Inclusive educational practices for students with moderate-severe disabilities and the philosophical, theoretical and technological foundation required for implementation of curriculum and methodology, and the basis for curriculum design.

EPSY 5610 - Microcounseling I

Units: 2

Development and practice of the basic skills of counseling, especially the skills of listening. Use of brief videotaped counseling sessions ("microcounseling"). Students will role-play to observe, analyze, and evaluate techniques of counseling.

EPSY 5620 - Microcounseling II

Units: 2

Development of the counselor's ability to influence others. Use of brief videotaped counseling sessions ("microcounseling"). Students will role-play to observe, analyze, and evaluate techniques of counseling.

EPSY 5900 - Independent Study

Units: 1-4

EPSY 6021 - Thesis-Project Seminar (Mild-Moderate Disabilities Option)

Units: 3

Culminating course for the M.S. Special Education, Mild Moderate Disabilities Option, Supervision of project or thesis. **Repeatability:** May be repeated once for credit, for a maximum of 6 units.

EPSY 6023 - Research in Applied Behavioral Sciences

Units: 4

Survey of research philosophy and methods for conducting studies in settings employing counselors, educators, and psychologists.

EPSY 6025 - Psychopathology of Childhood

Units: 4

Seminar in developmental psychopathology; advanced case study, differential diagnosis, assessment procedures, treatment and placements.

EPSY 6026 - Psychopathology in Adulthood

Units: 4

Theoretical and clinical approaches to conceptualization, differential diagnosis, and assessment of psychopathology through adulthood. Application of theories of psychopathology to counseling and psychotherapy.

EPSY 6027 - Chemical Dependence Theory

Units: 4

Theory and research relating to chemical dependence as a variable in counseling. Focus on concepts of dependence, the disease model, identification, assessment, and family dynamics. Covers addiction to alcohol and other mood altering chemicals.

EPSY 6029 - Seminar in Chemical Dependency

Units: 2

Survey of concepts of alcoholism and other chemical substance dependency. Assessment and treatment modalities applied to addictive disorders.

EPSY 6120 - Communication: Collaborative Teaming and Management

Units: 4

Development of collaborative consultation, communication, teaming and problem-solving skills necessary for the coordinated delivery of educational services for students with disabilities.

EPSY 6124 - Augmentative Communication and Assistive Technology

Units: 4

Hardware, software, and web-based applications and strategies for accessing and integrating technology with universal design principles. Legal, ethical, and policy issues in technology use. Role of technology in collaborative team-based assessment for individualized assistive technology and augmentative communication use across the life span.

EPSY 6127 - Instruction and Behavioral Support: Mild-Moderate Disabilities

Units: 4

Specific instructional and curriculum strategies. Positive behavioral support interventions that enhance the teaching/learning process for mild-moderate and at-risk students from diverse cultural, linguistic and/or ethnic backgrounds.

EPSY 6128 - Instructional and Behavioral Support Fieldwork

Units: 4

Fieldwork reinforcing the skills, abilities, and strategies introduced specifically in EPSY 6127. **Co-requisites:** *Concurrent enrollment in EPSY 6127.*

EPSY 6129 - Advanced Study in Collaborative Service Delivery, Education, and Transition

Units: 4

Facilitates Level II candidates' advanced skill development in leadership, cross-cultural communication, professional development collaboration and networking across transdisciplinary teams with educators and community agencies. Teamwork throughout critical transition periods, interagency service coordination, school reform models, effective transition within diverse restructured and inclusive schools.

EPSY 6130 - Service Learning and Positive School Climate

Units: 4

Knowledge and skills for creating and implementing service learning projects within school and community settings. Connection to core curriculum, building academic and social skills and development of a positive school climate. Requires fieldwork for service learning project.

EPSY 6131 - Assessments: Students with Mild-Moderate Disabilities

Units: 4

Issues, policies, approaches and methods relevant to the assessment of students with mild to moderate disabilities for the purpose of determining knowledge, skills and abilities as well as needs. Formal and informal methods of academic, interest, social and behavioral assessments. Ethical and legal considerations. Advocacy for responsible practices.

EPSY 6133 - Curriculum: Students with Mild-Moderate Disabilities

Units: 4

Reinforce and enhance already existing skills, abilities and knowledge of instructional procedures, technology, positive behavioral approaches and curriculum development employed with mild-moderate and at-risk students from diverse cultural, linguistic, and/or ethnic backgrounds.

EPSY 6134 - Advanced Curriculum and Instruction: Mild-Moderate Disabilities

Units: 4

Advanced knowledge and practices in assessment, curriculum, and instruction for supporting students with mild-moderate disabilities in school, home and community settings. Emphasis on data based decisions, use of research and evidence based practices in curriculum and instruction.

EPSY 6137 - Instructional and Behavioral Support: Moderate-Severe Disabilities

Units: 4

Techniques for developing and implementing effective instruction for students with moderate to severe disabilities. A variety of assessment, classroom management and positive behavioral support strategies which provide the basis for instruction to meet the individual needs of a diverse population of learners.

Co-requisites: *Concurrent enrollment in EPSY 6860.*

EPSY 6140 - Curriculum: Students with Moderate-Severe Disabilities

Units: 4

Curriculum and instruction for basic skill development across motor, communication, social behavior, and academic areas. Infusion of skills within functional activities.

EPSY 6141 - Social Networks and Communication for Students with Autism Spectrum Disorders (ASD) and Other Disabilities

Units: 4

Learning and social characteristics of students with ASD, along with evidence-based strategies to teach specific communication and social skills. Including: techniques and materials to improve communication abilities and to develop rich social networks in inclusive schools.

EPSY 6142 - Assessment: Students with Moderate-Severe Disabilities

Units: 4

Issues, purposes, and methods relevant to the assessment of students with moderate to severe disabilities for educational programming, including appropriate selection and interpretation of a variety of assessment approaches. Ethical and legal considerations. Advocacy for responsible practices.

EPSY 6143 - Positive Behavior Supports

Units: 4

Knowledge and skills in developing and implementing comprehensive, function-based positive behavioral

supports. Basic applied behavior analysis principles and functional assessment of behavior. Variety of educational and positive intervention strategies. School-wide systems for positive, respectful discipline and student support.

EPSY 6144 - Inclusive Education: School and Community

Units: 4

Strategies for including students with severe disabilities in integrated school and community settings. Emphasis on functional programming and interactions and friendships with non-disabled peers, with practical applications in local schools.

EPSY 6145 - Advanced Studies in Adolescent Learning and Secondary Curriculum

Units: 4

Provides Level II candidates with specialized competencies and experiences beyond the basic program focusing on the adolescent/adult with mild-moderate-severe disabilities. Includes instruction, transition, social supports, and secondary curricula with school to work and career emphasis.

EPSY 6200 - Grief Counseling

Units: 2

The unique problems and situations of people facing loss, grief, and bereavement. Emotional reactions to death and loss. Counseling strategies based on stress reduction and the development of positive resolutions.

EPSY 6201 - Marketing Psychological Services

Units: 2

The process of planning, implementing, and marketing psychological skills in a business or private practice. Topics include defining deliverables, customers, selling cycles, pricing, and market strategy.

EPSY 6202 - Parents and Professional Relations

Units: 2

Knowledge and skills needed for effective interaction with parents of students with special needs. Familiarity with the legal basis, current research and practices related to parent involvement in special education.

EPSY 6203 - Inclusive Education Seminar

Units: 2

Advanced knowledge and hands-on skills for teachers delivering instruction within inclusive general education classrooms and school communities. Field experiences focusing on specific issues in inclusive education.

EPSY 6205 - Advanced Pupil Personnel Specialist

Units: 4

Advanced professional preparation in the theory and practice of pupil personnel services. **Grading: CR/NC grading only.**

EPSY 6206 - Advanced Studies in the Education of Students with Mild-Moderate Disabilities: Research and Professional Practice

Units: 4

Research and best practices for providing services to students with mild-moderate disabilities within school, home and community settings. Transitions across the lifespan, case management, and local, state, national and professional policies and legislation.

EPSY 6207 - Advanced Studies in the Education of Students with Moderate to Severe Disabilities: Research and Professional Practice

Units: 4

Skills in case management, ethical professional practices, the analysis and synthesis of pedagogical and research foundations, as well as in policy and legislations which inform best practice in the education of students with moderate-severe disabilities.

EPSY 6301 - Pediatric Psychology

Units: 4

Clinical issues in the growth and maturation of cognition, psychomotor performance, and ego development; anomalies of development and integration and related problems of social-emotional adjustment. Emphasis on the period of infancy and childhood.

EPSY 6302 - Individual Development

Units: 4

Theory and research covering individual growth over the life span. Emphasis on the interaction of biological and social factors and their psychological consequences, especially as to definition of normal crises and related levels of therapeutic intervention.

EPSY 6400 - Family Psychotherapy

Units: 4

Discussion and activities in psychotherapeutic techniques. Theory and research dealing with family interaction and communication. Diagnostic and intervention methods for dysfunctional family systems.

EPSY 6402 - Couples Therapy

Units: 4

Theory and techniques of counseling clients in couples, with an emphasis on spousal relationships. Assessment and treatment planning with issues of communication, intimacy, sexuality, goals, domestic violence, marriage, and divorce.

EPSY 6403 - Psychotherapy for Children

Units: 4

Introduction to the theories, research and techniques of psychotherapeutic assessment and treatment of children. Activities include class involvement in psychotherapy methods.

EPSY 6406 - Seminar in Human Sexuality

Units: 2

Physiological, psychological, social and cultural variables as they affect sexual identity, sexual behavior and sexual disorders. Clinical treatment of sexual problems.

EPSY 6500 - Cognitive Behavior Therapy

Units: 4

Principles and practice of cognitive and behavior therapies, including meta models and transformational linguistics of communication theories. Emphasis on possibilities for integrated therapeutic approach.

EPSY 6550 - Young Children with Special Needs

Units: 4

Survey of disabilities served under federal law with an emphasis on young children. Risk and protective factors related to early intervention. Introduction to the Individual Family Services Plan and Individualized Education Program processes. Ten hours of required fieldwork.

EPSY 6551 - Family systems and Cultural Competence in ECSE

Units: 4

Family Systems Model and cultural competence in the Early Childhood Special Education. Culturally sensitive methodologies; parent-child interactions; intervention processes. Ten hours of required fieldwork.

EPSY 6552 - Assessment and Intervention Planning for Young Children with Special Needs

Units: 4

Assessment of young children (birth to 5). Formal and informal methodologies. Translation of results to individualized goals and objectives. Ten hours of required fieldwork.

EPSY 6553 - Curriculum and Instruction in ECSE

Units: 4

Curriculum and instruction for young children with special needs. Inclusive and self-contained ECSE environments. Inter-agency and family collaboration. Ten hours of required fieldwork.

EPSY 6600 - Clinic Rounds

Units: 3

Regularly scheduled seminar with Director of Community Counseling Center. Discussion of procedures, good practices, assignment of cases, and Center ethics, rules, responsibilities. Required of all graduate students assigned as trainees to the Center. **Repeatability:** May be repeated for credit for 3 units per quarter for 6 quarters or 18 units total. **Grading:** *CR/NC grading only.*

EPSY 6610 - Graduate Seminar I

Units: 2

Introductory considerations of application of theory and current research to professional settings; problems in use of professional techniques and methods.

EPSY 6620 - Graduate Seminar II

Units: 2

Introductory considerations of application of theory and current research to professional settings; problems in use of professional techniques and methods.

EPSY 6630 - Graduate Seminar III

Units: 2

Introductory considerations of application of theory and current research to professional settings; problems in use of professional techniques and methods.

EPSY 6669 - Seminar in Mental Health Consultation

Units: 3

Theory and techniques of mental health consultation. Consideration of institutional and group factors as they affect and condition the adjustment problems of individuals. Techniques and strategies available to psychologists for affecting changes in the mental health climate of schools. **Prerequisites:** *Coursework in advanced fieldwork, with consent of advisor.*

EPSY 6670 - Field Work Group Supervision I

Units: 3

Group supervision of assigned field work. **Grading:** *CR/NC grading only.*

EPSY 6671 - Field Work Group Supervision II

Units: 3

Group supervision of assigned field work. **Grading:** CR/NC grading only.

EPSY 6672 - Field Work Group Supervision III

Units: 3

Group supervision of assigned field work. **Grading:** CR/NC grading only.

EPSY 6700 - Advanced Education Psychology

Units: 4

Systematic analysis of general principles of motivation and learning as applied to educational processes.

EPSY 6701 - Appraisal Procedures: Standardized

Units: 4

Seminar in measurement theory applied to the development and evaluation of standardized tests used in counseling. Activity includes administration and supervision of above instruments.

EPSY 6711 - Career-Life Planning

Units: 4

Career-Life planning counseling techniques; information sources; development of career libraries and centers, employability development techniques; activities involving observation and participation in career counseling and information.

EPSY 6720 - Theory and Assessment of Cognition

Units: 4

Concepts of intelligence and their use in mental Seminar in measurement theory applied to the development and evaluation of standardized tests used in counseling. Activity includes administration and supervision of above instruments. Major types of individually administered intelligence tests, their uses, and interpretation.

EPSY 6746 - Neuropsychology of Learning Disabilities

Units: 4

Diagnosis and rehabilitation of learning disabilities emphasizing a neuropsychological approach.

EPSY 6750 - Foundations of Counseling

Units: 4

The principles and concepts of counseling, including communication dynamics, intervention techniques, and development of a personal theory of counseling.

EPSY 6751 - Counseling and Psychotherapy Theory

Units: 4

Examination of current theories of counseling and psychotherapy; development of individual counseling approach.

EPSY 6752 - Cross-Cultural Counseling

Units: 4

Focus on cross-cultural counseling and psychotherapy, cultural values and personality formation; value orientation inherent in counseling and psychotherapy; psychological effects of cultural racism; effects of sex roles and life styles within different cultures.

EPSY 6754 - Cross-Cultural Consultation

Units: 4

Consultation with schools, agencies, institutions concerning emotional issues in mixed cultural/ethnic situations. Clinical application of current theories, research in counseling and psychotherapy. Reading, examination of case materials.

EPSY 6758 - Practicum in Counseling

Units: 3

Introductory learning experience to prepare graduate students for professional counseling in clinical settings. Students will receive information, practice, counseling skills and develop a professional perspective. **Repeatability:** May be repeated once for credit, for a maximum of 6 units.

EPSY 6762 - Group Procedures and Facilitation

Units: 4

Theories, principles of group dynamics and processes facilitating individual, small group, and organizational change. Interpersonal skills in group process. Clinical analysis of actual group experiences. **Credit Restrictions:** Not open to students with credit for PUAD 6762.

EPSY 6764 - Intervention Strategies for Systems and Organizational Change

Units: 4

Facilitator's role in organizational, systems change: schools, agencies, industry. Diagnosis, intervention strategies for planned or indirect organizational, systems change. Actual experience with intervention models, case problems. **Credit Restrictions:** Not open to students with credit for PUAD 6764.

EPSY 6765 - Psychological and Counseling Services in Schools and Higher Education

Units: 2

The administration and organization of psychological and counseling services in the schools and higher

education: concepts, responsibilities, and functions of the psychologist, counselor and student support services. Different sections will focus on K-12 or higher education. **Repeatability:** May be repeated once for credit, for a maximum of 4 units.

EPSY 6766 - Personal/Social Counseling in Schools

Units: 2

Integration, implementation, and evaluation of the American School Counselor Association (ASCA) National Standard's Personal/Social domain of a comprehensive school counseling program. Such programs are designed to meet the learning needs of all students, identify barriers to success, and increase learning power with enhanced activities. **Grading:** A-F grading only.

EPSY 6767 - Academic Counseling in Schools

Units: 3

Academic domain course for graduate study in school counseling. Oriented toward school counselors-in-training with emphasis on theoretical and practical aspects of comprehensive school counseling programs. Concentration on facilitation and development of school counseling program, and how school counselors support the learning of all students. Field study required. **Grading:** A-F grading only.

EPSY 6768 - Foundations of School Counseling

Units: 4

Foundational course for graduate study in school counseling. Oriented toward professionals-in-training with an interest in the special and unique field of school counseling. Emphasis on both theoretical and practical aspects of comprehensive school counseling program development. Field study required. **Grading:** A-F grading only.

EPSY 6770 - Internship

Units: 2-6

Individually supervised experience in a professional setting utilizing the full range of competencies in the student's concentration. **Repeatability:** May be repeated two times for credit, for a maximum of 18 units.

EPSY 6775 - Community Mental Health Counseling

Units: 4

Community mental health theories and skills. Including recovery orientated treatment for severe mental illness, disaster and trauma response, services for impoverished and homeless persons, foster-care, case management, client advocacy, collaboration, community service resources, and medical family therapy. **Prerequisites:** Consent of Instructor **Grading:** A-F grading only

EPSY 6783 - Seminar: Contemporary Issues

Units: 2-3

Seminar in theoretical, research, and counseling approaches concerning special issues and populations, such as delinquents, drug users, aged, the poor. **Repeatability:** May be repeated two times for credit when content varies, for a maximum of 9 units. Offered as two- or three-hour seminar.

EPSY 6784 - Pharmacology and Counseling

Units: 3

Utilization of theory and research from the psychiatric and psycho-pharmacological disciplines to increase counselors' knowledge of the medical treatments for psychiatric disorders. Overview of medications prescribed for children and adults with psychological and developmental disorders. The interface between psychotherapy and these medications.

EPSY 6785 - Law and Ethics in Counseling

Units: 3

Professional ethics and statutory, regulatory and decisional laws currently applicable to the practice of counseling and psychotherapy. Confidentiality, mandated reporting laws, family and child laws as they affect clinical practice. The relationship between a counselor's personal values and his or her professional behavior and ethics.

EPSY 6786 - Child Abuse Assessment

Units: 1

Legal and clinical aspects of child abuse as an issue in counseling and psychotherapy practice. Child abuse reporting laws and procedures, the psychological and family system variables important in assessment, and both individual and family treatment strategies. **Grading:** *CR/NC grading only.*

EPSY 6788 - Spousal/Partner Abuse

Units: 2

Detection, assessment, and diagnosis of spousal or partner abuse. Clinical issues regarding emotional abuse and violence in domestic relationships. Interventions for the treatment of couples in abusive relationships.

EPSY 6810 - Advanced Graduate Seminar I

Units: 2

Relationship of theory and current research to professional practice; consideration of ethical and legal principles, socio-cultural issues, and research techniques in professional settings.

EPSY 6820 - Advanced Graduate Seminar II

Units: 2

Relationship of theory and current research to professional practice; consideration of ethical and legal principles, socio-cultural issues, and research techniques in professional settings.

EPSY 6830 - Advanced Graduate Seminar III

Units: 2

Relationship of theory and current research to professional practice; consideration of ethical and legal principles, socio-cultural issues, and research techniques in professional settings.

EPSY 6860 - Advanced Fieldwork I

Units: 2-4

Individual supervision of assigned field work. **Grading:** *CR/NC grading only.*

EPSY 6862 - Advanced Fieldwork II

Units: 2-4

Individual supervision of assigned field work. **Grading:** *CR/NC grading only.*

EPSY 6870 - Advanced Field Work Group Supervision I

Units: 3

Group supervision of assigned field work. **Grading:** *CR/NC grading only.*

EPSY 6871 - Advanced Field Work Group Supervision II

Units: 3

Group supervision of assigned field work. **Grading:** *CR/NC grading only.*

EPSY 6872 - Advanced Field Work Group Supervision III

Units: 3

Group supervision of assigned field work. **Grading:** *CR/NC grading only.*

EPSY 6880 - Advanced Internship

Units: 2-15

Individually supervised experience in a professional setting utilizing the full range of competencies in the student's concentration. **Repeatability:** May be repeated two times for a maximum of 45 units. **Grading:** *CR/NC grading only.*

EPSY 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which students complete academic assignments integrated with off-

campus paid or volunteer activities. **Repeatability:** May be repeated once for credit for a maximum of 8 units. **Grading:** *CR/NC grading only.*

EPSY 6899 - Project

Units: 2-5

Development of an original product which is summarized in a written abstract. Both the project and the abstract are submitted to the department which specifies their formats. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense may be required.

EPSY 6900 - Independent Study

Units: 1-4

EPSY 6909 - Departmental Thesis

Units: 2-5

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally is required.

EPSY 6910 - University Thesis

Units: 1-9

Development and writing of a formal research paper for submission to the University in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense is normally required. (See also, "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course.

EPSY 6911 - Developmental Assessment Practicum

Units: 4

Clinical practice under supervision with individually administered tests.

EPSY 6912 - Personality Assessment

Units: 4

Study of instruments and procedures commonly employed in clinical study of emotional and social adjustments.

EPSY 6999 - Issues in Educational Psychology

Units: 2

Readings, discussion, research, and applications on contemporary and/or significant issue in Educational Psychology. **Repeatability:** May be repeated 5 times for credit when content varies, for a maximum of 12 units.

Engineering

ENGR 1011 - Engineering: An Introduction

Units: 3

Introduction to engineering profession and creative engineering problem-solving through hands-on design projects, presentations, and activities. An introduction to various engineering disciplines. Issues such as sustainability, optimal use of resources, design for manufacturability, design for reuse and logistics are considered. Work in engineering-related writing, both in-class and online, with emphasis upon effective preparation of written research in the field.

ENGR 1420 - Engineering Graphics

Units: 2

Engineering drawing, computer-aided design, dimensioning, and tolerancing. Drawings of mechanical components.

ENGR 1810 - Pre-Columbian Engineering and Construction Technology

Units: 4

An exploration of the engineering advances, technology, and construction techniques by pre-Columbian cultures in North, Central and South America. Applied analysis of relevant engineering principles developed by pre-Columbian cultures and their past and present technological and environmental impact. Satisfies GE Area: B1, Physical sciences; B5, Science elective. **Credit Restrictions:** Not for Engineering major/minor credit.

ENGR 2010 - Electric Circuit Theory I

Units: 3

Application of fundamental circuit laws and theorems to the analysis of DC and to steady-state single-phase and three-phase circuits. **Prerequisites:** *PHYS 1003 (may be taken concurrently).*

ENGR 2060 - Materials Science

Units: 4

Structure of matter. Physical and mechanical properties of materials, including metals, alloys, ceramics, insulating materials, semiconductors, super semiconductors, and polymers. Equilibrium diagrams. Heat treatments, material selection, and corrosion phenomena. **Prerequisites:** *CHEM 1101 and MATH 1304.*

ENGR 2070 - Fundamentals of Manufacturing

Units: 4

Traditional and non-traditional manufacturing processes. Cutting tool analysis. Production methods.

Prerequisites: ENGR 1011 and ENGR 2060.

ENGR 2430 - Computer Organization and Assembly Language Programming

Functional organization of digital computers and programming in machine and assembly language.

Internal representation of data, binary arithmetic, machine instructions, addressing modes, subroutine linkage, macros. Introduction to assemblers, linkers, and loaders. **Prerequisites:** *Department permission required.*

Engineering: Graduate

ENGR 5180 - Product/Process Design

Units: 4

Investigation of the product and process design cycle as a source of competitive advantage. Topics include functional maps, aggregate planning, cross-functional integration, design for manufacturability, and the design-build-test cycle. Case studies and site visits used extensively to reinforce concepts presented in lectures and reading assignments.

ENGR 5200 - Systems Simulation

Units: 4

Design and analysis of manufacturing and service systems by simulation. Function of random variables. Random number and function generators, programming and characteristics of simulation languages.

ENGR 5280 - Design and Management of Human Work Systems

Units: 4

Qualitative principles and techniques used to maximize labor productivity, employee satisfaction, and organizational performance in work settings. Topics include worker motivation and incentive systems, leadership, worker autonomy, work groups and participatory organizational structures including quality control circles, total productive maintenance teams, and socio-technical systems.

ENGR 5300 - Quality Engineering

Units: 4

Quality control, reliability, maintainability, and integrated logistic support. Statistical theory of process control and sampling inspection. Risks associated with decisions based on operating characteristics of control charts and sampling plans. Reliability and life testing methods. Economics of statistical QC.

Cross-listed: STAT 5300.

ENGR 5601 - Introductory Statistics and Probability for Science and Engineering

Units: 4

(See STAT 5601 for course description.)

ENGR 6090 - Economic Decision Systems

Units: 4

Course Content: Economic evaluation of information for complex decisions. Analysis of risks and uncertainties. Bayes theory and models. Decision theory, sequential decisions, and value of information applied to financial evaluation and control. Major project justification procedures. **Credit Restrictions:** Not open to students with credit for ENGR 4090. **Grading:** *A-F grading only.*

ENGR 6150 - Production Planning and Control

Units: 4

Inventory planning and control systems. Implementation of manufacturing resource planning including demand forecasting, production planning, master scheduling, bill-of-material, and inventory master file. Capacity requirements planning and shop floor control. Project management. **Credit Restrictions:** Not open to students with credit for ENGR 4100. **Grading:** *A-F grading only.*

ENGR 6200 - Project Management

Units: 4

Application of project management from both strategic and operational points of view. Quantitative methods such as project planning, budgeting, evaluation, selection, scheduling and control are demonstrated by using MS project via PERT/CPM. Early identification of potential problems, with implementation of alternative solutions and risk management. **Grading:** *A-F grading only.*

ENGR 6300 - Applied Quality Assurance

Units: 4

Application of quality engineering and management techniques during the design and improvement of processes and procedures. Topics include the application of statistical and optimization techniques used for process improvements. Design of Experiments (DOE), multivariate regression, and quality improvement techniques such as Six Sigma will be presented. **Cross-listed:** STAT 6300.

ENGR 6350 - Reliability Engineering

Units: 4

Reliability concepts and mathematical models, mechanical device reliability, electrical device reliability, systems reliability and maintainability, reliability data, assurance program elements. **Credit Restrictions:** Not open to students with credit for ENGR 4350. **Grading:** *A-F grading only.*

ENGR 6400 - Research Methods in Engineering Management

Units: 4

An application-oriented course with emphasis on quantitative techniques in engineering management. Topics include: decision-making under uncertainty, risk analysis, network analysis such as PERT and CPM, multi-criteria decision-making and cost optimization.

ENGR 6420 - Systems Modeling

Units: 4

Integration, problem identification, and the application of problem resolution techniques in manufacturing and service domains. System approach to problem identification, description, modeling, and resolutions derived by traditional optimization techniques as well as artificial intelligence methods. Supply chain modeling methods, logistics support analysis, procurement, and outsourcing strategies. **Grading:** *A-F grading only.*

ENGR 6430 - Facilities Planning and Design

Units: 4

Design concepts and input requirements in planning and design of new, or renovation of, existing manufacturing systems. Product, process, and flow and activity analysis techniques. Flow lines and buffering techniques. Computer-aided layout design and evaluation. Design of handling systems. Math models of location problems. **Credit Restrictions:** Not open to students with credit for ENGR 4430. **Grading:** *A-F grading only.*

ENGR 6440 - Computer Integrated Manufacturing Systems

Units: 4

Introduction to automation, computer aided manufacturing, group technology, computer aided process planning, cellular manufacturing, just-in-time manufacturing, Push and Pull Manufacturing Systems, and production control. **Grading:** *A-F grading only.*

ENGR 6800 - Applied Research in Engineering Management

Units: 4

An integrative capstone experience in which students conduct a literature search, develop a research proposal, complete a capstone graduate individual project and write a comprehensive project report encompassing areas covered in their course work. Prerequisites: Completion of University Writing Skills Requirement. Completion of all Engineering Management required courses. May be taken concurrently. *A-F grading only.*

ENGR 6899 - Project

Units: 1-4

Completion of a research or applied project, accompanied by a written report. The report is submitted to the department, which specifies its format. A departmental faculty member supervises the project. Oral defense may be required.

ENGR 6900 - Independent Study

Units: 1-4

Course is based on selected research topics agreed upon by the student and the faculty supervising the course. A plan of work completion must be submitted and approved prior to proceeding with the project. The student will provide progress reports and a final report prior to final presentation to the committee.

ENGR 6999 - Issues in Engineering

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in engineering.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units. **Grading:** A-F grading only.

English

ENGL 1001 - College Writing I

Units: 4

An introduction to writing for academic purposes, critical analysis, and argumentation. Must complete course with a grade of "C-" or better in order to earn General Education credit. Students should consult the section of the University Catalog or Class Schedule dealing with the English Placement Test (see Registration) before registering for English 1001. Because this is the freshman-level, transferable composition course (for California community colleges, colleges, and universities), students enrolling in the course should, at the time of entry, be able to write brief essays showing adequacy in 1. selection of a controlling idea appropriate to the given writing task; 2. coherent development of that idea to a reasoned conclusion; 3. use of sentences that demonstrate some structural variety and that contain language appropriate to the audience and purpose, and 4. control of the conventions of standard, written English (relative freedom from errors such as fragments, run-together sentences, faulty agreement, and improper pronoun reference) and of mechanics (capitalization, spelling, and punctuation). The work of the course is to strengthen these skills by extensive practice in the writing of expository essays suitable for college-level credit. Students deficient in these prerequisite skills will be advised to take developmental writing courses before enrolling in English 1001. **Prerequisites:** Total Score of 147 or higher on the EPT or exemption from the EPT, passing ENGL 0910, or ENGL 0803.

ENGL 1002 - College Writing II

Units: 4

Further work in expository writing with emphasis on argumentation and persuasion. Introduction to the preparation and writing of the research paper. **Prerequisites:** ENGL 1001 with grade of "C-" or better.

ENGL 1020 - College Reading for Fluency

Units: 4

Read multiple works of fiction and non-fiction to build English language fluency, academic vocabulary,

learning strategy repertoire, and cultural background knowledge for the U.S. context. Enrollment limited to first-year international students. **Repeatability:** *Repeatable for a maximum of 8 units.*

ENGL 1101 - Adjunct Grammar Workshop and Lab for Non-Native Speakers of English

Units: 1

Focus on developing accuracy and style in written English. **Co-requisites:** *Enrollment in ENGL 1001.*

ENGL 1102 - Adjunct Grammar Workshop and Lab for Non-Native Speakers of English II

Units: 1

Focus on developing accuracy and style in written English. **Co-requisites:** *Enrollment in ENGL 1002.*

ENGL 2000 - Vocabulary Study for Non-Native Speakers of English

Units: 4

Vocabulary study, including word-formation, history, and idiomatic usage, for non-native speakers of English. **Credit Restrictions:** Not open for credit towards General Education-Breadth Requirements or English major or minor. **Grading:** *A/B/C/NC grading only.*

ENGL 2005 - Grammar for Writers

Units: 4

Instruction in the structure and style of the standard, literary English sentence. Review of traditional grammar and usage, with attention to the integration of the sentence into its logical and rhetorical contexts.

ENGL 2010 - Vocabulary Building

Units: 4

Designed to help students build varied, precise vocabularies; introduces the historical development and present-day resources of the English vocabulary; special attention given to Latin and Greek word-building prefixes, suffixes, and elements. **Prerequisites:** *ENGL 1001.*

ENGL 2030 - Introduction to Critical Writing on Prose Fiction

Units: 4

The theory and practice of critical writing, based on readings in prose fiction. **Prerequisites:** *ENGL 1002.*

ENGL 2040 - Introduction to Critical Writing on Poetry

Units: 4

The theory and practice of critical writing, based on readings in poetry. **Prerequisites:** *ENGL 1002.*

ENGL 2050 - Introduction to Critical Writing on Drama

Units: 4

The theory and practice of critical writing, based on readings in drama. **Prerequisites:** ENGL 1002.

ENGL 2070 - Beginning Workshop in Fiction

Units: 4

Introduction to imaginative prose writing of various types with emphasis on basic narrative techniques.

Prerequisites: ENGL 1002 and ENGL 2030, or permission of instructor.

ENGL 2075 - Beginning Workshop in Poetry

Units: 4

Introduction to poetry writing of various types with emphasis on basic techniques. **Prerequisites:** ENGL 1002 and ENGL 2040, or permission of instructor.

ENGL 2600 - Patterns of Immigration and Migration in U.S. Literature

Units: 4

Literary works that represent the social, political, and cultural effects of immigration and migration in the U.S.

ENGL 2740 - Introduction to American Cinema

Units: 4

A study of the American cinema introducing students to the language of film analysis and to key figures and films from the silent era, the development of the Hollywood studio system, the influence of independent filmmakers, and contemporary film productions. **Prerequisites:** ENGL 1001.

ENGL 2745 - Portrayal of American Groups through Film

Units: 4

Portrayal of American groups in American cinema, 1950 to the present. Lectures/discussion with films; reading of scripts and essays about film.

ENGL 3000 - Writing for Proficiency

Units: 4

Regular practice in the writing skills necessary to reach the level of proficiency, determined by portfolio assessment, required for students to move forward to the next level writing course and completion of the University Writing Skills Requirement (UWSR). Some students may demonstrate a level of proficiency in their portfolio to complete the UWSR at the end of ENGL 3000. **Prerequisites:** ENGL 1001, or equivalent, and junior standing. Credit unavailable through challenge. Not for credit toward English major, English minor, Creative Writing minor, Liberal Studies major, or General Education requirements. **Grading:** CR/NC grading only.

ENGL 3001 - Writing for Proficiency for Non-Native Speakers of English

Units: 4

Instruction in this course is geared toward the needs of non-native speakers of English. Regular practice in the writing skills necessary to reach the level of proficiency, determined by portfolio assessment, required for students to move forward to the next level writing course and satisfaction of the University Writing Skills Requirement (UWSR). Some students may demonstrate a level of proficiency in their portfolio to complete the UWSR at the end of ENGL 3001. **Prerequisites:** *ENGL 1001, or equivalent, and junior standing. Credit unavailable through challenge. Not for credit toward English major, English minor, Creative Writing minor, Liberal Studies major, or General Education requirements.* **Grading:** *CR/NC grading only.*

ENGL 3003 - Discursive Writing

Units: 4

Theory and practice of discursive writing; critical reading and evaluation of formal and informal prose. **Prerequisites:** *Junior standing; and either a CR (Credit) in ENGL 3000 or ENGL 3001 or a score of 7 on the Writing Skills Test. Not for credit toward requirements of the English major, English minor, Creative Writing minor, or General Education.*

ENGL 3005 - Study of Language

Units: 4

Theory of language and communication; role of language in the personal and social development of the fully "human" being; origins, development, acquisition, and diversity of language; nature and function of symbolic systems; phonology, morphology, syntax, orthography, sign language, and semantics.

Prerequisites: *ENGL 1001.*

ENGL 3010 - Modern English Grammar

Units: 4

A traditional philological description of the structure of standard written English. **Prerequisites:** *ENGL 1001 and junior standing.*

ENGL 3015 - Introduction to Phonology

Units: 4

An introduction to the methods that linguistics use to describe the sound systems of the languages of the world. Particular emphasis given to English sound patterns. **Prerequisites:** *ENGL 1001.*

ENGL 3020 - Advanced Expository Writing

Units: 4

An advanced course in the theory and practice of expository writing. Fulfills the University Writing Skills Requirement for students who began work on the present degree before Fall Quarter, 1985. **Prerequisites:** *ENGL 1002 and junior standing.*

ENGL 3025 - Introduction to Technical and Professional Writing

Units: 4

Overview of technical, professional, and workplace writing. Emphasis on finding and evaluating information, creating well-crafted, user-oriented documents, and using suitable applications to make information available in appropriate formats. Ethics of technical writing and writing in a multicultural context. **Prerequisites:** *ENGL 1002*.

ENGL 3040 - Linguistic History of the English Language

Units: 4

A linguistic approach to the origin and development of English, and its relations to cognate languages. **Prerequisites:** *ENGL 1001 and junior standing*.

ENGL 3050 - Language and Gender

Units: 4

Critical analysis and discussion of gender as it shapes and is reflected in spoken and written discourse. **Prerequisites:** *ENGL 1001 and junior standing*.

ENGL 3070 - Intermediate Workshop in Fiction

Units: 4

Imaginative prose writing, with emphasis on theory and techniques. Classroom analysis of student manuscripts and published stories; individual conferences. **Prerequisites:** *ENGL 2070 and consent of instructor*.

ENGL 3071 - Writing Women's Lives: A Workshop

Units: 4

Explores forms of personal narrative, with emphasis on students' own writing. Reading includes journal entries, letters, and autobiographical writings by a diverse cross-section of American women. **Prerequisites:** *ENGL 1002 and junior standing*.

ENGL 3075 - Intermediate Workshop in Poetry

Units: 4

Practice in form and technique; weekly manuscripts, class criticism, editorial conferences. **Prerequisites:** *ENGL 2075 and consent of instructor*.

ENGL 3080 - Introduction to Critical Theory of Literature

Units: 4

Examination and application of major critical approaches to literary analysis and interpretation. **Prerequisites:** *ENGL 2030, ENGL 2040, ENGL 2050 (or equivalents), and upper division standing in the English major*.

ENGL 3400 - Masterworks of British Literature

Units: 4

A selection of major works, in poetry, drama, and prose fiction, from British literature of all ages, medieval to modern. **Prerequisites:** *ENGL 1001 or equivalent.*

ENGL 3600 - Masterworks of American Literature

Units: 4

A selection of works, in poetry, drama, and prose fiction, from American literature of all periods, colonial to modern. **Prerequisites:** *ENGL 1001 or equivalent.*

ENGL 3650 - Women and Literature

Units: 4

Literary works written by women and/or images of women in literature by both female and male authors. The writings of North American authors of various ethnic and cultural backgrounds.

ENGL 3660 - Native American Literature

Units: 4

Native American myth, legend, and folklore, as well as nineteenth- and twentieth-century writing by Native Americans.

ENGL 3670 - Asian/Filipino American Literature

Units: 4

Five writers whose heritage is Asian/Filipino, but who are writing fiction or poetry in California.

ENGL 3680 - Hispanic/Latino/U.S. Literature

Units: 4

A survey of Latino American writing in the United States.

ENGL 3691 - Black Literature I

Units: 4

A comprehensive history of Black writing in America from the beginnings to 1930. **Prerequisites:** *ENGL 1001 and junior standing.* **Cross-listed:** ES 3691.

ENGL 3692 - Black Literature II

Units: 4

A comprehensive history of Black writing in America from 1930 to the present. **Prerequisites:** *ENGL 1001 and junior standing.*

ENGL 3700 - Classical Literature

Units: 4

Readings in classical literature in translation: epic, lyric, satirical, and dramatic poetry of the Greeks and Romans. **Prerequisites:** *ENGL 1001 and junior standing.*

ENGL 3710 - Medieval Literature

Units: 4

Literary patterns in Medieval Europe: the epic, the courtly novel, and lyric poetry, from the troubadours to Chaucer. **Prerequisites:** *ENGL 1001 and junior standing. (On demand)*

ENGL 3720 - Renaissance Humanism

Units: 4

The contribution of classical learning to the European Renaissance. **Prerequisites:** *ENGL 1001 and junior standing. (On demand)*

ENGL 3730 - The Neo-Classical Tradition

Units: 4

The development of the neo-classical spirit in Western literature of the 17th and 18th centuries, with special reference to the literatures of France and England. **Prerequisites:** *ENGL 1001 and junior standing. (On demand)*

ENGL 3740 - The Romantic Era: 1770-1830

Units: 4

The dominant themes and styles of romanticism, with readings from major writers. **Prerequisites:** *ENGL 1001 and junior standing. (On demand)*

ENGL 3745 - The Gothic

Units: 4

The endangered heroine in English Gothic literature from Castle of Otranto to Rebecca.

ENGL 3760 - Literature of the Twentieth Century

Units: 4

Major movements in recent European and American literature, with emphasis on a major figure or figures. **Prerequisites:** *ENGL 1001 or junior standing. (On demand)*

ENGL 3770 - Gay and Lesbian Literature

Units: 4

Study of literary works written by and about gays and lesbians.

ENGL 3850 - The Graphic Novel: Form and Meaning in Comics

Units: 4

Study of the history, structure, and emerging patterns of the graphic novel, or comic book, a hybrid narrative form that blends literary and visual components. Analysis of primary sources and graphic novel criticism that explores the genre's cultural impact. **Prerequisites:** *Junior standing or permission of instructor.*

ENGL 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity.*

Grading: *CR/NC grading only.*

ENGL 3999 - Issues in English Language and Literature

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in English language and literature.

ENGL 4000 - Seminar in English Education

Units: 2

The integration of language, literature, and composition studies in the secondary-school curriculum, with on-site observation and supervised group discussion. **Prerequisites:** *Instructor's permission and junior standing.*

ENGL 4005 - Informational and Instructional Technology in the English Classroom

Units: 2

The technological resources currently available to English teachers including word-processing, data base, and spread sheet programs. Students learn to use grade-book and test-generation programs and other interactive technologies. They evaluate the effectiveness of Laser disk, CD ROM, and other technologies. **Prerequisites:** *ENGL 4000.*

ENGL 4010 - Current Theories in Formal Grammar

Units: 4

Introduction to current theories in the study of formal grammar. **Prerequisites:** *ENGL 3010.*

ENGL 4040 - Language in the U.S.A.

Units: 4

Overview of the language situation in the U.S.A. Regional, social and ethnic dialects. Stylistic variation, Spanish-English code switching/mixing. African American language. Pidgin-creole varieties. Implications for teaching and learning. **Prerequisites:** *ENGL 1001 or junior standing.*

ENGL 4060 - Topics in the Study of the English Language

Units: 4

Intensive study of a single aspect of the English language, or of a group of closely related aspects. Students may repeat ENGL 4060 for a maximum of 12 units, when the content differs. **Prerequisites:** ENGL 1001.

ENGL 4070 - Advanced Workshop in Fiction

Units: 4

Writing of long and short fiction. For the prospective professional writer. **Prerequisites:** ENGL 3070, and consent of instructor.

ENGL 4075 - Advanced Workshop in Poetry

Units: 4

Writing of poetry. For the prospective professional poet. **Prerequisites:** ENGL 2075 and consent of instructor.

ENGL 4151 - Introduction to Chaucer

Units: 4

A close reading of The Canterbury Tales with appropriate attention to its cultural context. **Prerequisites:** ENGL 2040 and junior standing.

ENGL 4251 - Shakespeare

Units: 4

Written, research-based examination of the dramatic conventions of Shakespeare theater; the Renaissance intellectual backgrounds; and a survey of representative plays and poems. Satisfies GE Area C4. **Prerequisites:** ENGL 2040 and ENGL 2050. **Repeatability:** May be repeated once when content varies, for a maximum of 8 units.

ENGL 4260 - Milton

Units: 4

A study of Milton's poetry and selected prose. **Prerequisites:** ENGL 2030 and ENGL 2040.

ENGL 4325 - Studies in 18th-Century British Literature

Units: 4

Intensive study of selected authors or topics of the Restoration and Neo-Classic periods. **Prerequisites:** ENGL 2030 and ENGL 2040.

ENGL 4411 - Studies in Early 19th-Century British Literature

Units: 4

Intensive study of selected authors or topics of the Romantic period. **Prerequisites:** ENGL 2030 and ENGL 2040.

ENGL 4412 - Studies in Late 19th-Century British Literature

Units: 4

Intensive study of selected authors or topics of the Victorian period. **Prerequisites:** ENGL 2030 and ENGL 2040.

ENGL 4450 - Studies in British Women's Literature

Units: 4

Intensive study of British women authors throughout the centuries. **Prerequisites:** ENGL 2030 and ENGL 2040.

ENGL 4635 - Studies in Mid-19th-Century American Literature

Units: 4

Intensive study of selected authors and topics of mid-19th century America. **Prerequisites:** ENGL 2030 and ENGL 2040.

ENGL 4636 - Studies in Late 19th-Century American Literature

Units: 4

Intensive study of selected authors and topics from the Civil War to 1914. **Prerequisites:** ENGL 2030 and ENGL 2040.

ENGL 4637 - Studies in 20th-Century American Literature

Units: 4

Intensive study of selected authors and topics from 1914 to the present. **Prerequisites:** ENGL 2030 and ENGL 2040.

ENGL 4650 - Studies in Ethnic American Women's Literature

Units: 4

Intensive study of selected Ethnic American women authors after 1900. **Prerequisites:** ENGL 2030, ENGL 2040.

ENGL 4660 - Ethnic American Autobiography

Units: 4

Intensive study of selected twentieth- and twenty-first-century autobiographies and memoirs by African American, Latino American, Asian American, Native American, and other ethnic American writers. **Prerequisites:** ENGL 1001 and junior standing.

ENGL 4710 - Bible for Students of Literature

Units: 4

Major events, characters, themes, and phrases of the authorized (King James) version of the Bible and the influence of these upon the literature and language of the English-speaking peoples.

ENGL 4720 - Mythology

Units: 4

Cosmologies and cosmogonies: readings from literatures of the Orient, the Near East, the Mediterranean, and Europe. **Prerequisites:** *ENGL 1001 and junior standing.*

ENGL 4740 - History of Children's Literature

Units: 4

History of children's literature to 1900--Literature for children from 1600 to 1900. Diverse literary and pictorial techniques; the cultural values that shape selected works for children. **Prerequisites:** *ENGL 1001 and junior standing.*

ENGL 4741 - Children's Literature in the 20th Century

Units: 4

Literature for children in the 20th century, and beyond. Diverse literary and pictorial techniques; the cultural values that shape selected works for children. **Prerequisites:** *ENGL 4740.*

ENGL 4743 - Children's Folklore

Units: 4

The politics and poetics of children's own storytelling and speech play, including songs, riddles, legends, and jokes. **Prerequisites:** *ENGL 1001 and junior standing.*

ENGL 4745 - Film Criticism

Units: 4

Lecture/discussion with films. Written critical resumes of the work of American and international writer-directors. Study of film scripts, emphasizing characterization, themes, and techniques. **Prerequisites:** *ENGL 1001.*

ENGL 4810 - English Drama Before 1642

Units: 4

A history of the drama from its liturgical beginnings to the closing of the theaters. **Prerequisites:** *ENGL 2040 and ENGL 2050.*

ENGL 4827 - 20th-Century Poetry

Units: 4

A study of representative British and American poets from 1914 to the present. **Prerequisites:** ENGL 2040 or consent of instructor.

ENGL 4831 - British Novel Before 1800

Units: 4

Development of the British novel from its beginnings through the 18th century. **Prerequisites:** ENGL 2030 and ENGL 2040.

ENGL 4832 - British Novel, 1800-1914

Units: 4

Development of the British novel through the Romantic and Victorian periods and up to the beginning of World War I. **Prerequisites:** ENGL 2030 and ENGL 2040.

ENGL 4833 - British Novel from 1914 to 1945

Units: 4

A study of the development of the 20th century British novel from World War I through World War II. **Prerequisites:** ENGL 1001 and junior standing.

ENGL 4840 - The Short Story

Units: 4

Development of the modern short story in America and Europe. **Prerequisites:** ENGL 2030.

ENGL 4845 - The Short Story: A Global Perspective

Units: 4

Reading and analysis of short stories from around the world, classic and contemporary. **Prerequisites:** ENGL 1001 and junior standing.

ENGL 4860 - American Fiction to 1914

Units: 4

The development of American fiction from Cooper to Dreiser, including Poe, Hawthorne, Melville, Twain, James, and others. **Prerequisites:** ENGL 2030 and ENGL 2040.

ENGL 4870 - The American Novel, 1914-1945

Units: 4

Development of the 20th century American novel from World War I through World War II. **Prerequisites:** ENGL 1001 and junior standing.

ENGL 4876 - Current American and British Novel

Units: 4

Development of the British and American novel since 1975. **Prerequisites:** ENGL 2030.

ENGL 4890 - Senior Seminar in English

Units: 4

Development of the English major portfolio, including one written, research-based essay, along with development of and preparation for an exit examination in the degree major, part of which will focus on the individual option. **Prerequisites:** *English major and Senior standing.*

ENGL 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

English: Graduate

ENGL 6001 - Introduction to Graduate Studies

Units: 4

Introduction to the major research tools for the study of English; survey and evaluation of various methods in literary criticism. Required for M.A. in English.

ENGL 6060 - The Literary Magazine

Units: 4

Practicum in which students learn about editing, layout, graphics, marketing, and distribution of a literary journal by working to produce the English Department's annual literary publication, Arroyo Literary Review, and by studying other university-based literary journals. **Repeatability:** May be repeated once for credit, with permission of the instructor. for a maximum of 8 units. **Grading:** CR/NC grading only.

ENGL 6070 - Graduate Workshop in Fiction

Units: 4

Writing of long and short fiction. Theory and analysis of the art of fiction. For the prospective professional writer. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

ENGL 6075 - Graduate Workshop in Poetry

Units: 4

Writing of poetry. Theory and analysis of the art of poetry. For the prospective professional writer. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

ENGL 6100 - Seminar in Medieval Literature

Units: 4

Study of major works, authors, and literary topics of the medieval period; at least one work read in the original language. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

ENGL 6215 - Seminar in Renaissance Literature

Units: 4

Study of major works, authors, and literary topics of the Tudor and Stuart periods. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

ENGL 6350 - Seminar in Restoration and 18th-Century British Literature

Units: 4

Study of major works, authors, and literary topics of the Restoration and the 18th century. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

ENGL 6405 - Seminar in 19th-Century British Literature

Units: 4

Study of major works, authors, and literary topics of the Romantic and Victorian periods. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

ENGL 6501 - Theory and Practice of Teaching ESL I

Units: 4

Focuses on current research as well as practical, innovative methods for teaching ESL to adult learners.

ENGL 6502 - Theory and Practice of Teaching ESL II

Units: 4

Focuses on current research as well as practical, innovative methods for teaching ESL to adult learners.

ENGL 6503 - Second-Language Acquisition

Units: 4

Psycholinguistic and sociolinguistic processes as well as affective factors involved in the acquisition of a second language, with emphasis on adult learners of English.

ENGL 6504 - Morphology and Lexical Semantics

Units: 4

Investigation of the structural composition of English words, with emphasis on processes of word formation and theories of meaning and meaning change. Analysis of errors made by ESL learners.

ENGL 6506 - Sociolinguistics

Units: 4

Relationship between language and society. Language variation associated with different geographic, ethnic, and socioeconomic groups and social situations. Implications for teaching English as a Second Language.

ENGL 6507 - Testing and Evaluation for Teaching ESL

Units: 4

Methods of assessing proficiency in speaking, understanding, reading, and writing a second language. Examines adequacy of traditional evaluation methods as well as procedures in test construction and evaluation.

ENGL 6508 - Supervised Tutoring/Teaching

Units: 4

Supervised work with students in ESL classes and tutorials. **Repeatability:** Course must be repeated as required in the TESOL option for maximum credit of 8 units.

ENGL 6509 - Computer Assisted Language Learning and Teaching

Units: 4

Methods of integrating the computer into teaching ESL to adult learners. Considers theoretical and practical issues.

ENGL 6510 - Pedagogical Grammar

Units: 4

Examination of grammar needed by ESL students to develop their analytical and critical thinking skills, comprehension of ESL students' problems and challenges with learning grammar, and investigation of strategies, methods and approaches to teaching grammar effectively to ESL students. **Grading: A-F grading only.**

ENGL 6600 - Seminar in American Literature to 1900

Units: 4

Study of major works, authors, and literary topics before 1900. **Prerequisites:** Graduate standing in English or consent of instructor. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

ENGL 6608 - Supervised Composition Teaching/Tutoring

Units: 4

Supervised practice in composition classes and tutorials.

ENGL 6650 - Seminar in Women's Literature

Units: 4

Literary works written in English by women authors throughout the ages. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

ENGL 6660 - Seminar in 20th Century British Literature

Units: 4

Study of major British works, authors, and literary topics of the 20th century. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

ENGL 6665 - Seminar in 20th Century American Literature

Units: 4

Study of major American works, authors, and literary topics of the 20th century. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

ENGL 6675 - Studies in Poetry and Poetics

Units: 4

Prosody and other formal issues; theory and practice of one poet or of a particular "school" or movement; relationships between poetry and cultural contexts. **Repeatability:** May be repeated once for credit with consent of instructor and when content varies, for a maximum of 8 units.

ENGL 6690 - Seminar in African-American Literature

Units: 4

Major works, authors, and literary topics of the 19th and 20th centuries. **Repeatability:** May be repeated for credit with consent of instructor.

ENGL 6750 - Theory and Practice of Composition

Units: 4

Focus on current research in theory and methods of teaching composition.

ENGL 6770 - Theory and Practice of Teaching Literature

Units: 4

Theory and methods for teaching literary genres and periods appropriate for high school and community college literature courses.

ENGL 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Repeatability:** May be repeated for credit, for a maximum of 8 units. **Grading:** CR/NC grading only.

ENGL 6900 - Independent Study

Units: 1-4

ENGL 6909 - Departmental Thesis

Units: 1-5

Development and writing of a research paper for submission to the department, which specifies its format. The written project, focusing on TESOL research, includes a survey of current literature and a bibliographical essay on an important issue in the field. Supervised by a departmental committee, at least one member of which must be a Cal State East Bay faculty member. Oral defense is normally required.

ENGL 6910 - University Thesis

Units: 4

Development and writing of a formal research paper for submission to the University in the specified format. Supervision by a departmental committee, at least one member of which must be a Cal State East Bay faculty member. Oral defense normally required. (See also, "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course.

ENGL 6999 - Issues in English Language and Literature

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in English language and literature. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Environmental Science

ENSC 2210 - Environmental Geology

Units: 4

See GEOL 2210 for course description.

ENSC 2211 - Environmental Geology Laboratory

Units: 1

See GEOL 2211 for course description.

ENSC 2300 - Global Change: Planet in Crisis

Units: 4

Processes and drivers of global environmental change over various time scales, impact of natural and anthropogenic factors, human and environmental consequences. Topics include orbital variations, greenhouse gases, ozone, El Niño, carbon cycle, ocean circulation, sea level, climate variability, modeling.

ENSC 2400 - Environmental Biology

Units: 4

Introduction to living organisms focusing on organismal interactions with their environment and with other organisms, relationships between organismal structure and function, effects of humans on biological diversity and ecosystems, and conservation of species. **Strongly Recommended:** ENSC 2401 as co-requisite.

ENSC 2401 - Environmental Biology Laboratory

Units: 1

Investigations of the interactions of living organisms with their environment and with other organisms, how organismal structure and function influence where and how they live, effects of humans on biological diversity. **Prerequisites:** ENSC 2400 or concurrent enrollment.

ENSC 2800 - Environmental Problems of California

Units: 4

Human impact on the biologic and geologic environment in California. Resource needs, waste issues, species diversity, and ecosystem degradation. **Credit Restrictions:** Not open to students with credit for ENSC 2801 or ENSC 2802.

ENSC 2801 - Global Environmental Problems

Units: 4

Human impact on the biologic and geologic environment in California and throughout the world. Resource needs, waste issues, species diversity, and ecosystem degradation. **Credit Restrictions:** Not open to students with credit for ENSC 2800 or ENSC 2802.

ENSC 2802 - Global Environmental Issues

Units: 4

Biologic and geologic environment in California and throughout the world with emphasis on human impact. Resource needs, waste issues, species diversity, and ecosystem degradation. **Credit Restrictions:** Not open to students with credit for ENSC 2800 or ENSC 2801.

ENSC 2900 - Field Activity in Environmental Science

Units: 3

Introduction to environmental issues in the local area through weekly visits to natural sites, industrial and commercial facilities, environmental treatment and remediation sites. **Strongly Recommended:** High school preparation in environmental science or an introductory Environmental Science course (ENSC 2800, ENSC 2801, or ENSC 2802).

ENSC 3500 - Environmental Hydrology

Units: 4

The hydrologic cycle from precipitation, evapotranspiration, infiltration and runoff, to surface and groundwater. Hydrograph analysis, effects of human activities on streamflow and the riparian environment. Surface water and groundwater contamination and remediation methods. Predicted effects of climate change on water resources in California and the Western U.S. **Prerequisites:** *GEOL 2101 or GEOL 2210 or equivalent; ENSC 2800 or ENSC 2801 or ENSC 2802 or equivalent; and CHEM 1011 or equivalent.* **Cross-listed:** GEOL 3500.

ENSC 3999 - Issues in Environmental Science

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in environmental science. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

ENSC 4140 - Hazardous Waste Management

Units: 4

Study of the investigation and clean-up of hazardous waste sites. Environmental regulations, hazard awareness, contaminant characterization, personal protective equipment, monitoring and sampling equipment, site characterization and control, decontamination, operational hazards and overview of emergency response. **Prerequisites:** *CHEM 1101, CHEM 1102, CHEM 1103 or equivalent; ENSC 2800, or ENSC 2801 or ENSC 2802 or equivalent.* **Cross-listed:** GEOL 4140.

ENSC 4200 - Global Change

Units: 4

Interaction of Earth's systems (biosphere, lithosphere, hydrosphere, cryosphere, and atmosphere) and links between life, oceans, climate, and the solid earth. This course will focus on biophysical systems, ecological responses, human activities, future scenarios, and sustainability. **Prerequisites:** *ENSC 2800, or ENSC 2801 or ENSC 2802 or equivalent.*

ENSC 4800 - Seminar in Environmental Science

Units: 3

Advanced study of environmental issues based on papers presented by students. Topics to change with each course offering. Team-taught by faculty from different departments in Environmental Sciences. **Prerequisites:** *Completion of Environmental Sciences core and senior or graduate standing.*

ENSC 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Environmental Studies

ENVT 2000 - Introduction to Environmental Studies

Units: 4

Survey of important local, national, and world environmental problems, emphasizing a multidisciplinary approach. **Credit Restrictions:** Not open to students with credit for ENVT 2001.

ENVT 2001 - Environmental Perspectives

Units: 4

Basic concepts of the global human environment: problems and causes, including ecosystem imbalance, human population explosion, fossil fuel depletion and search for alternatives, air and water pollution, solid and hazardous waste disposal, climate change, deforestation, and rangeland management. **Credit Restrictions:** Not open to students with credit for ENVT 2000.

ENVT 3400 - Environmental Resource Analysis

Units: 4

Quantitative methods for environmental problem solving including unit analysis, computer aided analysis, common functions, statistics, and error analysis.

ENVT 3480 - Applied Field Studies

Units: 4

(See GEOG 3480 for course description.)

ENVT 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** At least 2.0 GPA; departmental approval of activity. A maximum of 4 units will be accepted toward the Environmental Studies major; a maximum of 4 units will be accepted toward the Geography minor. **Repeatability:** May be repeated for credit for a maximum of 8 units. **Grading:** CR/NC grading only.

ENVT 3999 - Issues in Environmental Studies

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in environmental studies.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.

ENVT 4100 - Environmental Impact Analysis

Units: 4

The language and changing dynamics of the environmental review process. Contents and standards of environmental impact reports and their role in the planning process.

ENVT 4300 - Environmental Field Studies

Units: 5

Weekly visits to various sites throughout the Greater Bay Area to observe environmental processes. Natural areas, industrial facilities, environmentally related agencies. **Prerequisites:** *Senior standing in Environmental Studies.* **Strongly Recommended:** Strongly Recommended: ENVT 4100.

ENVT 4320 - Energy and Society

Units: 4

(See GEOG 4320 for course description.)

ENVT 4800 - Senior Seminar in Environmental Studies

Units: 3

Problem-oriented around selected topics of environmental concern, and requiring projects or reports.

Prerequisites: *ENVT 2000; restricted to seniors completing the major or minor in Environmental Studies.* **Strongly Recommended:** Strongly Recommended: ENVT 4300.

ENVT 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

ENVT 4910 - Internship in Environmental Studies

Units: 2-4

Assignments in public and private agencies on projects related to citizen action, environmental planning, or in research. Supervision and evaluation by agency personnel and the course instructor. Students exchange ideas and experiences in weekly group sessions which are conducted by the instructor.

Prerequisites: ENVT 2000 and consent of instructor. **Repeatability:** May be repeated once for credit, for a maximum of 8 units. Ten to twenty hours weekly.

Ethnic Studies

ES 1001 - Introduction to Ethnic Studies

Units: 4

An examination of dominant historical and philosophical research trends in Ethnic Studies. Multi- and inter-disciplinary approaches to the study of the African American, Asian American, Mexican/Latino American, and Native American experience.

ES 1005 - Viewing Diversity

Units: 4

Basic social science approaches to the study of local, national, and global constructions and representations of cultural diversity.

ES 1201 - Ethnicity in American History I

Units: 4

Topical and comparative approach to the contributions of diverse peoples and cultures to the development of the United States from European contact to 1877.

ES 1202 - Ethnicity in American History II

Units: 4

Topical and comparative approach to the contributions of diverse peoples and cultures to the development of the United States from 1877 to the present.

ES 3000 - Ethnic Writers

Units: 4

A critical examination of the novels of twentieth century minority American writers. Advanced principles of composition and style. Fulfills the University Writing Skills Requirement for students who began work on the present degree before Fall quarter 1985. **Prerequisites:** ENGL 1001 or equivalent.

ES 3010 - Decolonize Your Diet: Food Justice in Communities of Color

Units: 4

Explores issues related to food justice in communities of color in the US. Topics may include recovering knowledge about ancestral foods, community gardens in urban environments, or healing from Western diseases, such as diabetes and heart disease.

ES 3030 - Immigrant and Refugee Women

Units: 4

Changes and continuities in the lives of immigrant and refugee women, especially with reference to the conditions leading to their departure from their countries of origin and adaptation and resettlement in the United States. **Cross-listed:** WOST 3030.

ES 3140 - Racism and Sports

Units: 4

Biographical approach to the study of racism in sports. The lives of significant African American sports figures as a backdrop for an examination of broader social, economic, and political issues. **Credit Restrictions:** *Not open to those with credit for KIN 3735.*

ES 3230 - Oral Traditions

Units: 4

Critical examination of oral traditions, collective memory, folklore, and testimonial literature of America's multicultural experience. Emphasis on community dynamics, immigration, pop-culture, folklore, and family history.

ES 3333 - Ethics and Minority Politics

Units: 4

(See POSC 3333 for course description.)

ES 3420 - Minority Women in America

Units: 4

(See WOST 3420 for course description.)

ES 3430 - Interracial Sex and Marriage

Units: 4

Interracial sex and marriage in the U.S. through literature and film. Themes/images will be placed within a larger historical context of shifting attitudes about race and gender.

ES 3434 - Mixed Race Identities

Units: 4

Examination of mixed race peoples-their legal and social status, U.S. Census designations, and identities from the one-drop rule to President Obama and beyond. The social science complement to ES 3430, Interracial Sex and Marriage.

ES 3650 - Sikh American Experience

Units: 4

Examination of salient issues in the lives of contemporary Sikh American communities, a rapidly growing, highly educated, and financially successful- yet rarely studied and little known-racialized and religious community in the United States.

ES 3700 - Special Topics in Ethnic Studies

Units: 4

Topics of current interest in Ethnic Studies. **Prerequisites:** *Consent of instructor.* **Repeatability:** May be repeated once for credit for a maximum of 8 units.

ES 3889 - Engaging Communities of Color

Units: 4

Supervised internships designed to enable students to apply ethnic studies analytical perspectives that center race, class, gender and sexual identities. Students will be directed toward organizations reflecting their personal interests in social justice, the environment, health, art, youth, etc.

ES 3999 - Issues in Ethnic Studies

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in ethnic studies. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

ES 4020 - Senior Seminar

Units: 2

A cross-discipline and interdisciplinary approach to theory and method. Emphasis on methodological and theoretical models that have shaped and informed the field of Ethnic Studies. Course will integrate a field learning component. **Prerequisites:** *Senior status.*

ES 4030 - Senior Thesis

Units: 2

A cross-disciplinary and interdisciplinary approach to theory and method. Emphasis on organization and writing of a major research paper. **Prerequisites:** *ES 4020.*

ES 4040 - Senior Seminar

Units: 4

Provides students with a culminating educational experience that emphasizes professional development and preparation for graduate-level research and writing. Students will produce a 10-page thesis, and participate in poster sessions, and mock academic conferences held in face-to-face and online formats. **Prerequisites:** *Approval of major department and/or instructor.*

ES 4900 - Independent Study

Units: 4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Ethnic Studies: African American Studies

ES 1022 - African Americans and Popular Culture

Units: 4

Focus on the performing arts as a medium for understanding ethnicity and American popular culture. Topics include African Americans in relation to artistic voice, access, marginality, and exclusion.

ES 2175 - Hip Hop Nation

Units: 4

Interdisciplinary examination of the development of hip-hop as aesthetic, cultural, and political practice. The course utilizes multidisciplinary perspectives and examines the socio-auditory evolution of hip-hop from local neighborhoods to a generational worldview.

ES 2300 - The Black Cinematic Tradition

Units: 4

A critical examination of historically significant black films, from 1915 to the present. Comparative and interdisciplinary in approach. The impact of the minstrel theatre tradition on early black films, the role of independent film producers and directors in creating alternative and more multidimensional images of blacks, and the more recent crossover tradition in American films. Representative films from each decade.

ES 3103 - The African Diaspora

Units: 4

An interdisciplinary approach to the African Diaspora in the Americas. Introduction to major works that focus on the cultural, historical, and intellectual experiences of Africans in the Diaspora.

ES 3105 - African American Identity

Units: 4

A study of the unique psychology which evolved as a result of the Black experience in America and how it is related to the basic processes of human behavior.

ES 3110 - Racism in America I

Units: 4

An examination of racist attitudes, behavior, and policies of America and Americans.

ES 3120 - The Civil Rights Movement

Units: 4

The historical, socioeconomic and political development of the major civil rights movements in the United States.

ES 3130 - Slavery in the Americas

Units: 4

The African slave trade and slavery. Emphasis on the relations among the institutions of slavery, racism and capitalism.

ES 3146 - Jazz on Film

Units: 4

Critical perspectives on cinematic representations of jazz music and musicians. Emphasis on deconstructing history of racialized images of African American jazz innovators.

ES 3147 - The Fictional Africa

Units: 4

A critical comparative examination of Africa and people of African descent as depicted in literature, film, and other popular media.

ES 3165 - African American Sexuality

Units: 4

The historical impact of African sexual attitudes and practices on both the European and the slave. The subsequent social and structural development in this society of contemporary African American sexual attitudes and behaviors. Within this context, a critical analysis of longheld African American sexual stereotypes and related problems.

ES 3190 - Internationalist Worldview of Malcolm X

Units: 4

Development of the critical thinking skills and background with which to better understand the life, ideas, and beliefs of the late African American activist, Malcolm X, largely through the use of primary documents.

ES 3303 - Contemporary African American Women Writers

Units: 4

Interpretation and discussion of literary works by contemporary African American women writers. Emphasis on the shifting trends in content, form, and structure.

ES 3691 - Black Literature I

Units: 4

(See ENGL 3691 for course description.)

ES 3720 - James Baldwin

Units: 4

Critical assessment of James Baldwin's contribution to American discourses on race, gender, and sexuality through interpretation of his novels, short stories, essays, and plays. Emphasis on Baldwin's synthesis of race and gay consciousness and the political dimensions of homosexuality.

ES 3721 - African-American Philosophical Perspectives

Units: 4

(See PHIL 3721 for course description.)

ES 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; departmental approval of activity. A maximum of 4 units will be accepted toward the Ethnic Studies major; a maximum of 4 units will be accepted toward the minor.* **Repeatability:** May be repeated for a maximum 8 units. **Grading:** *CR/NC only.*

Ethnic Studies: American Indian Studies

ES 2320 - American Indian Oral Literature

Units: 4

An examination of American Indian oral tradition in historical and contemporary contexts. Approaches oral and written literatures as subjective and objective ways of knowing the world. Emphasis is placed on experiencing traditional learning methods of American Indian oral-based cultures.

ES 2400 - Introduction to American Indian Studies

Units: 4

Introduction to academic discipline of American Indian Studies. Includes several overlapping themes: North American history, education, religion, etc., and provides the interdisciplinary basis for understanding historical and contemporary problems of American Indian peoples. **Credit Restrictions:** Not open to students with credit for ES 1300.

ES 3305 - Contemporary American Indian Life

Units: 4

Social and economic conditions of contemporary American Indian Life. Stereotypes, discrimination, poverty, and their effects on individuals. Contemporary social movements.

ES 3310 - God is Red: American Indian World View

Units: 4

A comparative study of American Indian belief systems, world views, and religions, analyzing their roles and importance in Indian life.

ES 3330 - American Indian Revitalization Movements

Units: 4

Study of American Indian movements aimed at liberation and revitalization from the effects of European conquest. Social and political problems of political domination. **Prerequisites:** *Consent of instructor.*

ES 3800 - Peoples of Central America

Units: 4

The developmental relationship between United States' communities of Central America origin and contemporary Central America. Focus on historical, socioeconomic, and cultural factors, as well as nationalistic movements, economic dependence, migration patterns (to the United States) and social change.

ES 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; departmental approval of activity. A maximum of 4 units will be accepted toward the Ethnic Studies major; a maximum of 4 units will be accepted toward the minor.* **Repeatability:** May be repeated for credit for a maximum of 8 units. **Grading:** *CR/NC only.*

Ethnic Studies: Asian American Studies

ES 2500 - Introduction to Asian American Studies

Units: 4

Introduction to the Asian American experience from an interdisciplinary perspective including popularized version of Asian Americans as the "model minority;" theoretical, statistical, historical, and personal approaches. Critical analysis and discussion of the position Asian Americans hold in society. **Credit Restrictions:** Not open to students with credit for ES 1500.

ES 3500 - The Afghan Diaspora

Units: 4

Interdisciplinary approach to the Afghan Diaspora in the United States. An examination of the cultural, historical, communicative, and socioeconomic experiences of Afghans in the Diaspora.

ES 3555 - Asian American Family Patterns

Units: 4

The family is conceptualized as an adaptable institution. How changes in larger society-immigration, race relations, gender roles-affect the Asian family in the United States. Topics include "bachelor" communities, picture brides, and interracial relationships. **Credit Restrictions:** Not open to students with credit for SOC 3417. **Cross-listed:** SOC 3555.

ES 3556 - Concentration Camps, U.S.A.

Units: 4

The personal, social, legal, and economic impact of U.S. Government evacuation and internment of U.S. citizens of Japanese ancestry during World War II. Comparison with contemporary detainments of U.S. residents during times of national crisis.

ES 3557 - Asian American Film Festival

Units: 4

Asian American films including those screened at current or previous Center for Asian American Media annual film festivals. Attendance will be required at a film festival. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

ES 3600 - Presumed Guilty: Asian Americans and the Post-9/11 Racialized State

Units: 4

Examination of the daily racialized realities of life for Asian Americans in the post-9/11 United States, with specific emphasis on the newly-articulated relationship between the state and various Asian American communities, especially Arab, Muslim, and South Asian Americans.

ES 3610 - South Asian American Experience

Units: 4

Examination of salient issues in the lives of contemporary South Asian American communities.

ES 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; departmental approval of activity. A maximum of 4 units will be accepted toward the Ethnic Studies major; a maximum of 4 units will be accepted toward the minor.* **Repeatability:** May be repeated for credit for a maximum of 8 units. **Grading:** *CR/NC only.*

Ethnic Studies: Genders and Sexualities in Communities of Color

ES 2700 - Introduction to Genders and Sexualities in Communities of Color

Units: 4

Critical study of the social construction of gender and sexuality in African American, Latino/a, Asian American, and Native American communities and contexts. **Credit Restrictions:** Not open to students with credit for ES 1700.

ES 3710 - Racialized Masculinities

Units: 4

Historical, cultural, structural, and personal meanings of masculinity for men and women of color. Ontological and epistemological explorations of race, class, gender, and sexuality.

ES 3730 - Women of Color, Genders and Sexualities

Units: 4

Critical examination of the multiple meanings of gender and sexuality to women of color in the US. May include discussion of lesbian and bisexual of color identities, reproductive politics, and safe-sex practices.

ES 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; departmental approval of activity. A maximum of 4 units will be accepted toward the Ethnic Studies major; a maximum of 4 units will be accepted toward the minor.* **Repeatability:** May be repeated for credit for a maximum of 8 units. **Grading:** *CR/NC only.*

ES 4300 - Queer of Color Subjects and Critical Theory

Units: 4

Examination of cultural and theoretical work constituting queer of color identities. Emphasis on queer theory and its precursors, including Freud and Foucault, in relation to people of color.

Ethnic Studies: Latino/a Studies

ES 2200 - Introduction to Latino/a and Latin American Studies

Units: 4

Historical, multidisciplinary overview of Latino/a studies. Focus on the socio-political and cultural experience of U.S. Latinos/as. Critical review of extant literature in the field, with particular emphasis on immigrant trends and identity and borderland issues. **Credit Restrictions:** Not open to students with credit for ES 1200.

ES 3210 - Latinas in the United States

Units: 4

Examines historically, culturally, and theoretically the condition of Latinas in the United States.

ES 3255 - The Chicano Movement

Units: 4

Historical and social aspects of the Chicano Movement. Examines the artistic, political, and literary contributions of the Chicano Movement and its impact on American society.

ES 3265 - Latino/a Sexualities

Units: 4

Interdisciplinary examination of Latino/a sexualities, including discussion of historical dimensions, popular culture representations, parent-child communication, sex work, HIV education, social construction of Latino/a heterosexualities, and GLBTQ Latinos/as.

ES 3805 - Latin American Immigration

Units: 4

An examination of Mexican, Puerto Rican and Latin American immigration to the United States from a comparative political-economic perspective.

ES 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; departmental approval of activity. A maximum of 4 units will be accepted toward the Ethnic Studies major; a maximum of 4 units will be accepted toward the minor.* **Repeatability:** May be repeated for credit for a maximum of 8 units. **Grading:** *CR/NC only.*

ES 4290 - Latino Politics and Public Policy

Units: 4

Contemporary social issues and public policy questions in the Mexican American/Latino community. Areas include race relations, immigration, feminization of poverty, education, housing, unemployment, juvenile delinquency, and criminal justice.

LAST 3260 - Latin American Women and Globalization

Units: 4

Interdisciplinary examination of the effects of global capitalism on Latin American women. Focus on migration patterns, border economies, "maquiladora" factories, femicide, sex trade, neo-liberal economic policies, and autonomous women's organizations.

LAST 3999 - Issues in LAST

Units: 4

Issues in Latina/o Studies

Finance

FIN 2300 - Personal Finance

Units: 4

Principles and practices of money management, consumer credit, savings, investments, taxation, and consumer protection. **Prerequisites:** *ELM exemption or an ELM score above 540 or ELM2 score of 50 or higher or completion of MATH 950.*

FIN 3300 - Financial Management

Units: 4

Theory and practices that underlie the financial manager's decision-making process. Capital investment analysis, capital structure, dividend policy, risk and return, and market valuation of the firm.

Prerequisites: *ACCT 2251; ECON 2301 and ECON 2302; STAT 2010 or STAT 1000.*

FIN 3360 - Management of Risk and Insurance

Units: 4

Techniques of risk management and uses of insurance contracts for individual and business insurance planning. The operation and regulation of the insurance industry and contract provisions for property, liability, life, annuity, health, and disability insurance. **Prerequisites:** *Junior standing.*

FIN 3400 - Principles of Real Estate

Units: 4

Fundamental tools of real estate decision-making and the management of real estate development, finance, investment valuation and operations. **Strongly Recommended:** *ACCT 2701.*

FIN 3410 - Real Estate Practice

Units: 4

Daily responsibilities of real estate sales and brokerage practices, the selling and buying processes of real property from listing to closing escrow, the purpose and importance of title. Ethical responsibilities of owning and operating a real estate business. **Prerequisites:** *FIN 3400.* **Grading:** A-F grading only.

FIN 3420 - Real Estate Law

Units: 4

Legal facets of real property acquisition, ownership and disposition. Importance of titles, deeds, easement

creation, zoning laws, leases and contracts, community property, types of tenancies. Introduction to mortgage and construction laws, brokerage laws and land-use regulation. **Prerequisites:** *FIN 3400*.
Grading: A-F grading only.

FIN 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity*.
Repeatability: May be repeated for credit, for a maximum of 8 units. Units not applicable to options or minor. **Grading:** *CR/NC grading only*.

FIN 3999 - Issues in Finance

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in finance. **Prerequisites:** *Consent of instructor*. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

FIN 4300 - Corporate Finance

Units: 4

In-depth study of theories and practices of corporate financial management. Emphasis on corporate financial decision-making, including capital budgeting, capital structure, dividend policy, risk management, and international financial management. **Prerequisites:** *FIN 3300*.

FIN 4305 - Entrepreneurial Finance

Units: 4

An analysis of the unique features of entrepreneurial finance. Emphasis will be on examining the characteristics, structure and valuation of ventures. Various aspects of the venture capital industry are addressed. **Prerequisites:** *FIN 3300*. **Grading:** A-F grading only.

FIN 4310 - Investment Analysis

Units: 4

Introduction to security analysis and portfolio management. **Prerequisites:** *FIN 3300*.

FIN 4315 - Derivatives Markets

Units: 4

Financial derivatives markets. Option markets, valuation, and strategies; futures markets and strategies; risk management and hedging; swaps and financial engineering. **Prerequisites:** *FIN 3300, MATH 1810; senior or graduating senior, and consent of instructor*.

FIN 4320 - Problems in Corporate Finance

Units: 4

Studies of specific problems in corporate financial policy formulation and decision-making using financial data bases and models. **Prerequisites:** *FIN 3300*.

FIN 4328 - Risk Management in Financial Institutions

Units: 4

An in-depth analysis of the unique features of financial institutions. Emphasis on examining the nature of risk exposures and strategies to manage risk. Various aspects of financial instruments, regulations, and crises are addressed. **Prerequisites:** *FIN 3300*. **Grading:** A-F grading only.

FIN 4330 - Financial Modeling

Units: 4

Using spreadsheets to solve a range of financial problems in investments, small business and corporate finance. Hands-on application of financial concepts in order to develop skills useful in a variety of jobs in finance, accounting, insurance, real estate and management. **Prerequisites:** *FIN 3300*. **Grading:** A-F grading only.

FIN 4370 - Seminar in Financial Theory

Units: 4

Selected topics dealing with recent developments in financial theory and management practice.

Prerequisites: *FIN 3300; senior or graduating senior, and consent of instructor*. **Repeatability:** May be repeated once for credit with the approval of the department, for a maximum of 8 units.

FIN 4375 - International Business Finance

Units: 4

Financial aspects of international business including international financial markets, foreign exchange management, foreign investment, multinational capital budgeting, working capital management, financing of international business including import-export financing and international banking. **Prerequisites:** *FIN 3300*. **Credit Restrictions:** Not open to those with credit for *FIN 6375*.

FIN 4410 - Real Estate Finance and Investment

Units: 4

Study of equity, mortgage, lease, sale and lease-back, and innovative methods of financing, including related tax effects. **Prerequisites:** *FIN 3300 and either FIN 3400 or graduating senior*.

FIN 4415 - Real Estate Valuation

Units: 4

Applications of investment analysis and appraisal theory to real estate management. **Prerequisites:** *FIN 4410.*

FIN 4420 - Sustainable Real Estate Development

Units: 4

Course Content: Detailed analysis of sustainability applying to real estate development. Includes resources and costs of rehabilitation and construction of green building technology. Topics include: building sustainable infrastructure and financial impacts including developer's costs and returns on "green" projects. **Prerequisites:** *FIN 3400, FIN 4410 or FIN 4415 with a grade of a C or better.*

FIN 4470 - Real Estate Markets and Housing Policies

Units: 4

Topics in real estate markets, regulations, housing policies, and structured mortgage products.

Prerequisites: *FIN 3400.*

FIN 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Finance: Graduate

FIN 6215 - Corporate Financial Management

Units: 4

Theory and practice of financial decision making. Topics include corporate governance, corporate performance analysis, capital investment decisions, valuation and cost of capital, long-term financial policy, short-term financial policy, dividend policy decisions, mergers and acquisitions. **Prerequisites:** All CBE and University proficiencies, including the UWSR; All MBA Fundamental Courses. **Grading:** *A-F grading only.*

FIN 6305 - New Venture Financing

Units: 4

Concepts and practices of financing and financial management of a new venture or expansion of an existing growth business. Valuation, financial planning, corporate structuring, exit strategies, private placement, initial public offerings venture capital, and other current issues. **Prerequisites:** All Fundamental Courses and FIN 6215.

FIN 6310 - Seminar in Security Analysis and Portfolio Management

Units: 4

Theory and practice of security investment. Investment environment and instruments, capital asset pricing theory, technical and fundamental analysis of common stock portfolio analysis, bond analysis and management, mutual funds and investment companies, and financial derivatives. **Prerequisites:** All Fundamental Courses and FIN 6215.

FIN 6315 - Seminar in Options and Futures

Units: 4

Financial derivative markets. Option markets, valuation, and strategies; futures markets and strategies; risk management and hedging; swaps and financial engineering. **Prerequisites:** All Fundamental Courses and FIN 6215.

FIN 6320 - Studies in Financial Markets

Units: 4

Evolution and structure of financial markets, instruments, and institutions. The process of intermediation including the development of risk reduction devices and the growth of securitization. Focus is on debt instruments and the role of global regulation. **Prerequisites:** All Fundamental Courses and FIN 6215.

FIN 6325 - Financial Management of Banking Institutions

Units: 4

Comprehensive treatment of commercial bank management in today's financial services industry. Modern approach to understanding and managing the risks faced by banks. Methods of optimizing shareholder value, risk-return tradeoffs, regulatory and strategic issues. **Prerequisites:** All Fundamental Courses and FIN 6215.

FIN 6375 - International Financial Management

Units: 4

Financial decision-making for multinational corporations, management of foreign exchange risk, foreign direct investment, multinational project evaluation, international diversification and risk-return analysis, international capital markets and capital structure. **Prerequisites:** All Fundamental Courses and FIN 6215.

FIN 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities within the quarter enrolled. **Grading:** CR/NC grading only.

FIN 6900 - Independent Study

Units: 1-4

FIN 6909 - Departmental Thesis

Units: 1-4

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a faculty committee, at least one of whom must be a Cal State East Bay faculty member.

FIN 6910 - University Thesis

Units: 1-5

Development and writing of a formal research paper for submission to the University in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course.

FIN 6999 - Issues in Finance

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in finance.

General Studies

GS 1010 - General Education Activities

Units: 1

Integrates thematic and basic subject course content. Builds communities to support attainment of expected G.E. course outcomes through group and individual strategies. Identifies learning styles of individual students. Integrates academic support services. Must be taken three times for credit, once each quarter of the frosh year. **Grading:** A-F grading only.

GS 1011 - General Studies Activities I

Units: 1

Orientation to the University and its services. Academic skill development in support of linked cluster course. Development of academic skills needed for success in college. Beginning development of students' portfolio. **Co-requisites:** Concurrent enrollment in linked Freshman cluster and skill courses. **Grading:** A-F grading only.

GS 1021 - General Studies Activities II

Units: 0.5

Academic skill development in support of linked cluster courses. Continued development of student portfolio. Focus on Career and Major exploration and freshman advising. Class meets first 7 weeks of the quarter. **Co-requisites:** Concurrent enrollment in linked Freshman cluster courses. **Grading:** A-F grading only.

GS 1031 - General Studies Activities III

Units: 0.5

Academic skill development in support of linked cluster courses. Continued development of student portfolio. Focus on academic planning, goal setting, and freshman advising. Class meets first 7 weeks of the quarter. **Co-requisites:** *Concurrent enrollment in linked Freshman cluster courses.* **Grading:** *A-F grading only.*

GS 1099 - Academic Decathlon

Units: 4

Directed independent study to help prepare area high school students to successfully participate in the United States Academic Decathlon Program. **Prerequisites:** *Consent of instructor.* **Grading:** *CR/NC grading only.*

GS 2500 - Peer Mentoring Practicum

Units: 2

Theory and practice of peer mentoring. Focus on developing mentoring role in the classroom and developing the competencies to work with instructors and students to increase the opportunities for academic success. **Prerequisites:** *Consent of instructor.* **Repeatability:** *May be repeated for credit five times for a maximum of 12 units.*

GS 3000 - McNair Scholars Seminar

Units: 1-4

Content varies with level of student Scholars ranging between the importance of graduate studies, researching appropriate graduate programs, preparing papers for conference submission, conference participation and presentation skills, applying to graduate school, GRE test-preparation, etc. **Prerequisites:** *Approval of McNair Scholars program faculty.* **Co-requisites:** *Participation in McNair program.* **Repeatability:** *May be repeated for a maximum of 12 units. Only 8 units credit may be applied toward the degree.* **Grading:** *CR/NC grading only.*

GS 3099 - Honors Leadership and Service

Units: 3

Introduction to the practice and theory of civic leadership, with emphasis upon community engagement. Service learning hours required. Restricted to students admitted into the University Honors Program. **Prerequisites:** *Consent of instructor; at least a 3.6 GPA.* **Grading:** *A-F grading only.*

GS 3999 - Honors Seminar

Units: 1

Students in the University Honors Program produce and present a digital portfolio of their academic and service accomplishments, assessing their Honors work in the context of program learning outcomes and

professional goals. **Prerequisites:** Admission to Honors Program, Junior standing or above, GS 3998 .
Repeatability: May be repeated once for credit, for a maximum of 2 units.

GS 4010 - Tutoring for Learning: Theory and Practice

Units: 1-4

Introduces the dynamic processes of tutoring and learning. Surveys the literature on tutoring theory, and combines tutoring observation and experience in the university tutoring center to provide informed training for tutors or teachers. **Repeatability:** May be repeated for credit, for a maximum of 12 units.

Geography

GEOG 2100 - Physical Geography

Units: 4

Major components of the physical environment, including landforms, climate, vegetation, and soils.

GEOG 2300 - Cultural Geography

Units: 4

Thematic introduction to the cultural systems operating to change the earth's surface; contemporary topics of human population, technology, social organization, spatial interaction, communication, and ideology. One half-day field trip required.

GEOG 2310 - Economic and Resource Geography

Units: 4

Location and linkages of economic activities as they relate to resource management. How goods and services produced by and for humans are geographically organized. Special emphasis on the historical antecedents of contemporary economic processes and international issues.

GEOG 2400 - Geography of World Development

Units: 4

Global wealth, poverty and inequality from a geographical perspective. Trends in important economic, environmental and sociocultural dimensions of world development. The who, why, and when and where aspects of the distribution of wealth at selected city, national and global scales.

GEOG 2600 - Introduction to GIS

Units: 4

See GEOL 2600 for course description.

GEOG 3000 - Sustainable Resource Management

Units: 4

The earth as a source of land, water, biotic, mineral and energy resources. The role of human populations in their use, sustainable development, and exploitation.

GEOG 3030 - Fundamentals of Geographic Information Systems

Units: 4

Fundamentals of location-related information management, manipulation, and display. Usage of commercially available GIS software in business; education; and physical, social and life sciences. **Credit Restrictions:** Not open to students with credit for GEOG 4600.

GEOG 3115 - Physical Landscape Analysis

Units: 4

The geomorphic evolution of the landscape with emphasis on the last 3 million years. Processes and landscape histories, especially as they relate to climate, climatic change, and tectonics.

GEOG 3120 - Climate Change

Units: 4

Pre-modern and modern changes and variations in climate with emphasis on the geological, geomorphological, and biological records. Causes (natural and human-induced, including contemporary global warming) and consequences (natural and cultural) of climate change.

GEOG 3200 - Asian Americans: Spatial Disparity and Multiculturalism

Units: 4

Ethnic diversity and settlement patterns of Asian communities in California and the United States; immigration history and demographic changes of different Asian ethnic groups; socio-economic profiles, cultural identities, and contemporary issues of Asian Americans.

GEOG 3320 - Food, Culture and Environment

Units: 4

Origins and diffusion of agriculture, from its earliest practices to today's global food economy. Emphasis on ethno-cultural food choices and environmental consequences of cuisine and food supply from farm to market to table.

GEOG 3360 - Historical Geography of North America

Units: 4

Historical-geographic processes of exploration, migration, settlement, urbanization, cultural integration, land use and resource exploitation from the 15th through the 20th centuries.

GEOG 3405 - Field Regional Geography

Units: 1

Reconnaissance field study of geography of selected areas in California and adjoining regions.

Repeatability: May be repeated but no more than two units may be applied to Geography major. **Grading:** CR/NC grading only.

GEOG 3410 - Air-Photo Interpretation

Units: 4

The principles of airborne remote sensing and image interpretation for environmental resource management. Hands-on experience in photogrammetric stereoscopy and image measurement of spatial data.

GEOG 3450 - Literature and Research Methods

Units: 5

Seminar in the basic geographical and environmental literature, source materials and research methods. Intensive exercises in both written and oral communication. Fulfills the University Writing Skills requirement for students who began work on the present degree before Fall Quarter, 1985.

GEOG 3480 - Applied Field Studies

Units: 4

Field-based research project. Application of techniques and methods, including field observation, sampling, data collection, and computer-based analysis. Presentation of results in graphic and written forms. **Cross-listed:** ENVT 3480. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

GEOG 3500 - Geography of the United States and Canada

Units: 4

Systematic analysis of the distinctive human-use regions of the United States and Canada emphasizing their character, personality, and economic profile. Case studies of resource use dilemmas.

GEOG 3505 - Geography of California

Units: 4

The natural and cultural processes which have shaped the landscape of contemporary California. California's varied environments, especially how they have been perceived, modified, and significantly altered by humans.

GEOG 3540 - China and Japan

Units: 4

China and Japan as modern industrial powers. Comparative analysis of spatial patterns, economic

development, natural resources, and social transformations that shape their respective cultural landscapes. Regional identities in the context of globalization.

GEOG 3550 - Geography of Southeast Asia

Units: 4

Physical resources, patterns of land use, economic development, and urbanization; problems and prospects of mainland and island countries from Myanmar to Indonesia and the Philippines. This region is an Islamic, Buddhist, Hindu, Christian cultural complex.

GEOG 3600 - Cartographic Principles and Graphic Communication

Units: 4

Fundamentals of map design and production. Emphasis on the humanistic and technical aspects of cartography. The essence of the map communication theory and gestalt theory of human perception; effective symbolization of spatial data.

GEOG 3605 - Computer Cartography

Units: 5

Introduction to the principles of modern digital cartography. Hands-on experience in computer mapping. Basic concepts, software, hardware of computer cartography; spatial data structure and database management; and lab-oriented software applications. **Prerequisites:** *GEOG 3600*.

GEOG 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity. A maximum of 4 units will be accepted toward the Geography major; a maximum of 4 units will be accepted toward the Geography minor.* **Repeatability:** May be repeated for credit for a maximum of 8 units. **Grading:** *CR/NC grading only.*

GEOG 3999 - Issues in Geography

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in geography. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

GEOG 4130 - Biogeography

Units: 4

(See BIOL 4130 for course description.)

GEOG 4320 - Energy and Society

Units: 4

Distribution of sources, production trends, use patterns, potentials of water, wind, volcanic, tidal, solar, and other sources of power; emphasis upon fossil fuels and nuclear energy. **Cross-listed:** ENVT 4320.

GEOG 4330 - Sustainable Development

Units: 4

Oxymoron or achievable goal? The major forces that shape national resource and economic development. Case studies that examine experiences with bilateral and multi-lateral development assistance. The close relationship between sustainable development, economics, demography, resource geography and the environment.

GEOG 4350 - Water Resources and Management

Units: 4

The historical, geographical, legal, and economic bases for the distribution and allocation of water, stressing California and the arid West; the environmental impact of water use; past and current issues and controversies in water distribution and redistribution.

GEOG 4425 - Remote Sensing of Earth Environments

Units: 4

Introduction to remote sensing applications on earth resource management. Focus on non-photographic earth observation systems such as near-infrared, thermal-infrared, and radar. Principles of remote sensing; types of imaging systems; and digital image processing.

GEOG 4605 - Applications of GIS

Units: 5

Interdisciplinary applications of GIS technology on the mapping, monitoring, analysis, management and conservation of environmental resources such as water, land use, agriculture and wildlife. **Prerequisites:** GEOG 3030.

GEOG 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Geography: Graduate

GEOG 6010 - Seminar on Research Theory and Philosophy of Geography

Units: 4

A search for common theory and philosophy in modern geography. Focus on proposal development with the intent of giving graduate students a framework for their thesis or project research development.

GEOG 6100 - Seminar in Physical Geography

Units: 3

Selected topics and directed research in physical geography based upon intensive readings, group discussion, and oral and written reports.

GEOG 6300 - Seminar in Cultural Geography

Units: 3

Selected topics and directed research in cultural geography based upon intensive readings, group discussion, and oral and written reports.

GEOG 6400 - Seminar in Historical Geography

Units: 3

Selected topics and directed research in historical geography based upon intensive readings, group discussion, and oral and written reports. **Strongly Recommended:** Strongly Recommended: GEOG 3360 or two upper division courses in history or consent of instructor.

GEOG 6500 - Seminar in Regional Geography

Units: 3

Selected regions of the world based upon directed research, group discussion, and oral and written reports.

GEOG 6660 - Seminar in Human Impacts on the Natural Environment

Units: 3

Selected topics in human/environment relationships and their effects upon landscape change and environmental problems.

GEOG 6780 - Seminar in Environmental Planning

Units: 4

Emerging developments in environmental planning; interactions between citizens and project proponents, governmental agencies and non-governmental organizations; collaborations for producing and implementing sustainability policies. Bay Area urban and regional focus. Field observations.

GEOG 6820 - Seminar in Sustainable Cities

Units: 4

Urban sustainability goals, progress, and process, evident from local, regional, and global initiatives. Off-campus site visits to Bay Area projects and forums when appropriate.

GEOG 6899 - Project

Units: 2

Development of an original product which is summarized in a written abstract. Both the project and the abstract are submitted to the department which specifies their formats. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense may be required.

GEOG 6900 - Independent Study

Units: 1-4

GEOG 6909 - Departmental Thesis

Units: 1-5

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required.

GEOG 6910 - University Thesis

Units: 1-6

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See also, "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course.

GEOG 6999 - Issues in Geography

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in geography. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Geology

GEOL 1000 - Earth Systems Science

Units: 5

Introduction to the nature and evolution of the solid Earth, hydrosphere, atmosphere and solar system. Emphasizes interdisciplinary thought and research. **Credit Restrictions:** Not open to students with credit for GEOL 1001, GEOL 1002, GEOL 1003, GEOL 1005 or GEOL 1006; Not for credit toward Geology major.

GEOL 1001 - Introduction to the Earth Sciences

Units: 4

Composition, structure and evolution of the earth. Interactions of lithosphere, hydrosphere, and atmosphere. Relations of geologic systems, hazards, and resources to human environment and future.

Credit Restrictions: Not open to students with credit for GEOL 1000, GEOL 1003, GEOL 1005 or GEOL 1006.

GEOL 1002 - Earth Sciences Laboratory

Units: 1

Laboratory investigation of the Earth system: solid Earth, hydrosphere, atmosphere, and solar system.

Geologic materials, maps, earthquakes, landslides, weather, oceans and currents, planets. Field trips may be required. **Prerequisites:** *GEOL 1001 (or GEOL 1003, GEOL 1005, or GEOL 1006) or concurrent enrollment.*

Credit Restrictions: Not open to students with credit for GEOL 1000; Not for credit in Geology major.

GEOL 1003 - How Earth Systems Work

Units: 4

How the earth's lithosphere, hydrosphere, and atmosphere work and the earth's place in the universe.

Credit Restrictions: Not open to students with credit for GEOL 1000, GEOL 1001, GEOL 1005 or GEOL 1006 .

GEOL 1005 - Earth Science

Units: 4

The earth's place in the universe with emphasis on how the earth's lithosphere, hydrosphere and

atmosphere work. **Credit Restrictions:** Not open to students with credit for GEOL 1000, GEOL 1001, GEOL 1003 or GEOL 1006.

GEOL 1006 - Earth Systems and Energy

Units: 4

Nature and evolution of solid Earth, hydrosphere, atmosphere and solar system. Emphasizes

interdisciplinary thought and the role of energy in the Earth system and energy resources. **Credit**

Restrictions: Not open to students with credit for GEOL 1000, GEOL 1001, GEOL 1003 or GEOL 1005; Not for credit toward Geology major.

GEOL 1007 - Earth Systems Science

Units: 5

Introduction to the nature and evolution of the solid Earth, hydrosphere, atmosphere and solar system.

Emphasizes interdisciplinary thought and research. A-F grading only. Not for Geology B.S./B.A. degree

credit. Not open for those with credit for GEOL 1000, 1001, 1002, 1003, 1004, 1005, or 1006. Four hrs.

lect., 3 hrs. lab; field trip(s).

GEOL 1201 - Introduction to Oceanography

Units: 4

Origin of ocean basins, nature of the sea floor, physical/chemical characteristics of sea water, ocean currents, marine life, relationships between humans and the sea. **Credit Restrictions:** Not for credit toward Geology major.

GEOL 1202 - Oceanography Laboratory

Units: 2

Introductory laboratory exercises in principles of oceanography, including distribution of temperature and salinity, currents, sea-floor topography, bottom sediments, waves and tides, and beach dynamics.

Prerequisites: *Prior or concurrent enrollment in GEOL 1201. Not applicable to the Geology majors.*

GEOL 2000 - Introduction to the Geology of California

Units: 4

The geologic history and development of California. Rocks, minerals and natural resources. Processes that shape California landforms. Plate tectonics, earthquakes, volcanism. **Credit Restrictions:** Not for credit in Geology major.

GEOL 2101 - Physical Geology

Units: 5

Nature and distribution of earth materials, the processes by which the materials are formed and altered, and the nature and development of the landscape.

GEOL 2102 - Earth and Life Through Time

Units: 4

Principles of interpretation of earth history. Study of plate tectonics and sea-floor spreading as related to the development of continents, ocean basins, and mountain belts. Origin, evolution and diversification of life through time. Laboratory sessions include hands-on exercises with fossils. **Prerequisites:** *GEOL 2101 or equivalent.* **Credit Restrictions:** Not open to students with credit for GEOL 3030.

GEOL 2210 - Environmental Geology

Units: 4

The interaction between geologic processes and human society. Topics include rock, mineral, water, and energy resources, volcanic hazards, earthquakes, landslides, floods, erosion, coastal processes, plate tectonics, geologic time, pollution problems and environmental management. Field trips may be required. **Strongly Recommended:** Concurrent enrollment in GEOL 2211/ENSC 2211 (lab). **Cross-listed:** ENSC 2210.

GEOL 2211 - Environmental Geology Laboratory

Units: 1

Hands-on investigation of topics including earth materials (minerals, rocks and soils), groundwater, water chemistry, earthquakes, and landslides. **Prerequisites:** GEOL 2210 or ENSC 2210. **Co-requisites:** GEOL 2210 or ENSC 2210. **Cross-listed:** ENSC 2211.

GEOL 2300 - Natural Disasters

Units: 4

Geologic processes and their effects on human populations. Topics include earthquakes, landslides, volcanic eruptions, coastal erosion, floods, atmospheric and water pollution. Designed for Physical Science G.E. students. **Credit Restrictions:** Not open to students with credit in GEOL 2301; Not for credit in Geology major.

GEOL 2301 - Natural Hazards

Units: 4

Earth and human-induced processes and their effects on human populations. Topics include earthquakes, landslides, volcanic eruptions, coastal erosion, floods, severe storms, atmospheric and water pollution. **Credit Restrictions:** Not open to students with credit in GEOL 2300; Not for credit in Geology major.

GEOL 2600 - Introduction to GIS

Units: 4

Use of Geographic Information Systems (GIS) for interpretation of spatial data and preparation of maps. Display and manipulation of vector and raster data, including point locations, street maps, boundaries, and satellite images. Map scale, projections, and coordinate transformations. Basic database queries. Principles of Global Positioning Systems (GPS). The course will include examples from several disciplines. **Cross-listed:** GEOG 2600.

GEOL 3011 - Foundational Earth Science

Units: 4

Emphasizes a system approach to the study of Earth Science through investigations of the solid Earth, hydrosphere, atmosphere and solar system. Designed to prepare teachers for the CSET General Science Subtest in Earth and Planetary Science with the goal of obtaining a Foundational Science Credential. **Prerequisites:** *GEOL 1000 or GEOL 1001*. **Credit Restrictions:** Not for credit in Geology or Environmental Science majors.

GEOL 3012 - Foundational Earth Science Laboratory

Units: 1

Laboratory investigation of integrated Earth System Science including geology, atmosphere, oceanography and the solar system. Designed to prepare teachers for the CSET General Science Subtest in Earth and Planetary Science with the goal of obtaining a Foundational Science Credential.

Prerequisites: *GEOL 1000 or GEOL 1002*. **Co-requisites:** *GEOL 3011*. **Credit Restrictions:** Not for credit in Geology or Environmental Science majors.

GEOL 3040 - Weather and the Atmosphere

Units: 4

Utilization of physical science principles in the study of the structure and circulation of the atmosphere; weather and weather forecasting. Emphasis on aspects of interest to the prospective or in-service teacher.

Credit Restrictions: Not for credit in Geology major.

GEOL 3050 - Volcanoes and Plate Tectonics

Units: 4

Relationship of volcanism to plate tectonics. Catastrophes and volcanic hazards. Processes and products at historically active volcanoes worldwide: lava flows and domes, avalanches and mudflows, air-fall tephra, and pyroclastic flows and surges. **Credit Restrictions:** Not for credit in Geology major.

GEOL 3080 - Earth Science Hands-On Laboratory

Units: 2

Opportunity to work with elementary and middle school students in a science teaching/learning environment infused with Earth Science content. Hands-on lessons provide early teaching experience in science for undergraduates exploring teaching as a career. GE Area B6, upper division science, is a 4-unit requirement. To complete the requirement, students must take an additional science 3080 course or an additional 4-unit course approved for B6. **Prerequisites:** GEOL 1000.

GEOL 3100 - Geology of the Western National Parks

Units: 4

The geologic history of western North America (from the Pacific Coast through the Great Plains) as interpreted from the outstanding features preserved in the national parks and selected other park service areas. **Credit Restrictions:** Not for credit in Geology major.

GEOL 3110 - Principles of Geomorphology

Units: 4

Landforms as products of diastrophism, volcanism, and surficial processes; morphogenetic regions of the earth and the effect of climate on the processes that shape them; rates and stages of landscape evolution and their dependence on time, process and structure. **Prerequisites:** *GEOL 2101 or equivalent*.

GEOL 3200 - Regional Field Geology

Units: 1-2

Reconnaissance field study of geology of selected areas in California and adjoining regions. Thirty hrs. field/lab. per unit. **Prerequisites:** one introductory geology course and permission of instructor.

Repeatability: May be repeated, but no more than 4 units may be applied to Geology major. **Grading:** CR/NC grading only.

GEOL 3400 - General Oceanography

Units: 4

Biological, chemical, geological, and physical characteristics of the sea, including geology of the ocean basins, marine ecosystems, and waves and currents. **Prerequisites:** *GEOL 2101 or equivalent.*

GEOL 3401 - The Oceans

Units: 4

Comprehensive survey of biological, chemical, and physical oceanography. Marine geology, plate tectonics, ecosystems, ocean structure, water chemistry, waves and currents. **Credit Restrictions:** Not open to students with credit for GEOL 1201 and GEOL 3400; Not for credit in Geology major.

GEOL 3500 - Environmental Hydrology

Units: 4

(See ENSC 3500 for course description.)

GEOL 3601 - Mineralogy and Optical Crystallography

Units: 5

Principles of mineralogy, crystal symmetry, structure, and chemistry. Elements of optical crystallography utilizing indicatrix theory. Laboratory emphasizes physical properties and identification of minerals in hand sample and thin section. **Prerequisites:** *Introductory chemistry and GEOL 2101 or equivalent.*

GEOL 3701 - Igneous and Metamorphic Petrology

Units: 5

Characteristics, phase relations, and origin of igneous and metamorphic rocks. Plate-tectonic setting of magmatism and metamorphism. Laboratory emphasizes rock classification based upon hand-lens and microscopic examination of mineralogy and texture. **Prerequisites:** *GEOL 3601 or equivalent.*

GEOL 3801 - Sedimentology and Stratigraphy

Units: 5

Depositional systems and sedimentary processes. Facies models, succession, age relationships, and correlation of strata. Petrology and provenance of sedimentary rocks. **Prerequisites:** *GEOL 2102 and GEOL 3701.*

GEOL 3810 - Structural Geology

Units: 5

Geometric, kinematic and dynamic analysis of structures of igneous, sedimentary and metamorphic rocks. Laboratory emphasis on descriptive geometry and stereographic solutions to structural problems; geologic maps and structure sections. **Prerequisites:** *GEOL 2101 or equivalent.*

GEOL 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA and departmental approval of activity.*

Credit Restrictions: Not for credit in Geology major. **Repeatability:** May be repeated for up to 8 units.

Grading: *CR/NC grading only.*

GEOL 3910 - Geologic Field Methods

Units: 3

Introduction to geologic field methods and instruments, use of aerial photographs and topographic maps in geologic mapping, preparation of geologic maps of local areas. **Prerequisites:** *GEOL 3701, GEOL 3801, and GEOL 3810 (any of these courses may be taken concurrently).*

GEOL 3999 - Issues in Geological Sciences

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in geological sciences.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.

GEOL 4010 - Applied Geophysics

Units: 5

Geophysical methods for determination of subsurface geology, including seismic refraction and reflection, ground-penetrating radar, gravity, magnetism, and resistivity. Basic geophysical theory. Collection of geophysical data in the field and analysis on the computer. **Prerequisites:** *GEOL 2101, MATH 1304, and PHYS 2702 or consent of instructor.*

GEOL 4020 - Seismic Exploration

Units: 4

Seismic exploration methods, including data acquisition, processing, modeling, and interpretation. Survey design, source and receiver types, selection of acquisition parameters. Static and gain corrections, deconvolution, velocity analysis, migration and inversion methods. **Prerequisites:** *GEOL 2101, MATH 1304, and PHYS 2701 or consent of instructor.* **Credit Restrictions:** Not open to students with credit for GEOL 6020.

GEOL 4130 - Survey of Geochemistry

Units: 4

Chemical evolution of the universe and earth, chemistry of rock formation, hydrothermal solutions and weathering. Isotopes and trace elements. **Prerequisites:** *GEOL 3601 (may be taken concurrently) and CHEM 1103 or equivalents.*

GEOL 4140 - Hazardous Waste Management

Units: 4

(See ENSC 4140 for course description.)

GEOL 4200 - Introduction to Planetary Science

Units: 4

Introduction to the formation and origin of the solar system. Celestial mechanics, stellar evolution, meteoritics, planetary interiors, surfaces, and atmospheres, moons, asteroids, comets, extraterrestrial life.

Prerequisites: *GEOL 3601 or equivalent.*

GEOL 4320 - Hydrogeology

Units: 4

The hydrologic cycle, from precipitation, evapotranspiration, infiltration and runoff, to surface and groundwater. Hydrograph analysis, stream gaging and discharge determination. Groundwater occurrence, movement and evaluation. Hydrologic regions of U.S., emphasizing the western states. Field trips may be required. **Prerequisites:** *GEOL 2101 or equivalent.*

GEOL 4414 - Earthquake Geology

Units: 4

Aspects of earthquake geology, plate tectonic and geographic location of seismicity; the source region and rock mechanics and deformation; seismic waves; event dating techniques and tectonic geomorphology; fault types and behavior. **Prerequisites:** GEOL 3801, GEOL 3810, or permission of instructor. **Credit Restrictions:** Not open to students with credit for GEOL 6414.

GEOL 4600 - GIS for Earth Sciences

Units: 5

An introduction to applications of Geographic Information Systems (GIS) to geology and other earth sciences. Designing, automating, and analyzing a spatial database; linking data sets; creating maps; generating reports and customizing ARC/INFO software. **Prerequisites:** *GEOL 2101 or permission of instructor.*

GEOL 4800 - Seminar

Units: 2

Critical, in-depth study of selected topics of current and classical research in geology; topics not repeated

in two-year interval. **Prerequisites:** *Senior standing or permission of instructor.* **Repeatability:** May be repeated, but no more than 6 units may be applied to Geology major.

GEOL 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units. **Grading:** *CR/NC grading only.*

GEOL 4910 - Senior Thesis

Units: 2

Independent research project with a written thesis, digital map, or similar final product to be completed by students desiring to graduate with a B.S. in geology with research experience (see department for guidelines). **Prerequisites:** *Senior level in Geology and thesis advisor's approval.* **Grading:** *CR/NC grading only.*

Geology: Graduate

GEOL 6020 - Seismic Exploration

Units: 4

Seismic exploration methods, including data acquisition, processing, modeling, and interpretation. Survey design, source and receiver types, selection of acquisition parameters. Static and gain corrections, deconvolution, velocity analysis, migration and inversion methods. Graduate research project required. **Credit Restrictions:** Not open to students with credit for GEOL 4020.

GEOL 6030 - Earthquake Seismology

Units: 4

Methods for using seismic data from earthquakes to study geologic properties. Stress and strain, seismic raypaths, travel times, amplitude and phase, body and surface waves. Seismic source theory, including focal mechanisms and moment tensors. Earthquake location methods. Travel-time inversion methods for the determination of velocity structure. Seismic coda and attenuation. Array analysis. **Grading:** *A-F grading only.*

GEOL 6040 - Near Surface Geophysics

Units: 4

High-resolution seismic, ground penetrating radar (GPR), electrical resistivity, and magnetic methods. Digital terrain data and global positioning system (GPS). Geophysical data processing methods. **Grading:** *A-F grading only.*

GEOL 6300 - Quaternary Geology

Units: 4

Evolution of climate and landforms of the Quaternary. Emphasis on interpretation of sedimentary deposits and erosional landforms. Techniques for determination of age relationships.

GEOL 6310 - Isotope Geochemistry

Units: 4

The course focuses on using variations in the abundances of isotopes to understand natural processes. Applications of radioactivity and other nuclear reactions (radioactive/radiogenic isotope geochemistry), and chemical separation of isotopes (stable isotope geochemistry), will be covered.

GEOL 6320 - Groundwater

Units: 4

Groundwater resource evaluation methods. Mathematical development of multi-dimensional flow equations. Introduction to computer models and numerical simulation to predict aquifer yields. Inorganic and organic groundwater contamination. Contamination transport processes.

GEOL 6411 - Engineering Geology

Units: 4

Application of geology in location and planning of engineering works. Study of case histories. Use of geophysical techniques to solve engineering geologic problems.

GEOL 6412 - Advanced Igneous and Metamorphic Petrology

Units: 4

Chemical characteristics of igneous rocks and magmatic evolution. Petrography of igneous and metamorphic rock suites using the polarizing microscope, emphasizing thorough description of mineralogy and textures. **Grading:** *A-F grading only.*

GEOL 6414 - Earthquake Geology

Units: 4

Aspects of earthquake geology, plate tectonic and geographic location of seismicity; the source region and rock mechanics and deformation; seismic waves; event dating techniques and tectonic geomorphology; fault types and behavior. Graduate research project required. **Prerequisites:** GEOL 3801, GEOL 3810, or permission of instructor.

GEOL 6415 - Advanced Sedimentary Petrology

Units: 4

Advanced study of terrigenous-clastic and chemical sedimentary rock petrogenesis, including depositional environments and facies models, diagenesis, and basic analysis techniques. **Grading:** *A-F grading only.*

GEOL 6420 - Internship

Units: 1-4

Professional experience for at least one quarter with a public or private organization involved in geologic studies, summarized in a written report. **Grading:** *CR/NC grading only.*

GEOL 6430 - Tectonic Geomorphology

Units: 4

Effects of earthquakes on modern landforms; types of geomorphic markers and determination of their ages; geologic structures resulting from earthquakes; geodesy and deformation rates; deformation and geomorphology at different timescales. **Grading:** *A-F grading only.*

GEOL 6440 - Structural Styles of Plate Margins and Regions

Units: 4

Thematic topical study of important regions, deformational styles, or plate-margin types. Focus on reading seminal papers on the subject and contemporary work. Format is combined lecture, seminar-style discussion, and student presentations. Students write weekly precis and make one class presentation.

Prerequisites: *GEOL 3801, GEOL 3810 or instructor consent.* **Grading:** *A-F grading only.*

GEOL 6620 - Advanced Topics in Geology

Units: 4

Selected advanced topics in geology. **Prerequisites:** graduate standing or consent of instructor.

Repeatability: May be repeated with consent of instructor.

GEOL 6811 - Graduate Seminar

Units: 2

Investigation of a selected geologic topic. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 4 units. Two hrs. seminar.

GEOL 6899 - Project

Units: 1-2

Development of an original product (e.g., manuscript, education module, field map, computer model) that is summarized in a written abstract. Both project and abstract are submitted to the department, which specifies their format. Supervised by a departmental committee. Oral defense may be required.

Repeatability: May be repeated for credit, for a maximum of 4 units. **Grading:** *CR/NC grading only.*

GEOL 6900 - Independent Study

Units: 1-4

No more than 4 units may be applied toward the master's degree. **Grading:** *CR/NC grading only.*

GEOL 6910 - University Thesis

Units: 1-9

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least two of whom must be Cal State East Bay faculty members. Oral defense required. (See also "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course. Grading: CR/NC grading only.

GEOL 6999 - Issues in Geological Sciences

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in geological sciences.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.

Health Care Administration: Graduate

HCA 6200 - US Health Care System

Units: 4

Major characteristics of the US health care system, its strengths and weaknesses, the roles of different stakeholders including providers, patients, policymakers and payers; the role of health insurance and its impacts, and definitions of health and health determinants. **Grading: A-F grading only.**

HCA 6201 - Introduction to Health Informatics

Units: 4

Topics include the use of information technology in various types of health-care settings and the main types of health information tools such as electronic health records, telehealth and mobile health and their related resources and applications. **Grading: A-F grading only.**

HCA 6202 - Project and Change Management in Health Informatics

Units: 4

Introduction to students to initiating and managing health informatics projects. Principles of project management, including initiating, planning, executing, monitoring, evaluating, and reporting as applied to health informatics. **Grading: A-F grading only.**

HCA 6203 - Quality Improvement Using Health Informatics

Units: 4

Issues of measuring, managing and improving the quality of health care using informatics. The impact of health informatics on patients and providers, communication, provider training, medical errors, and other relevant areas are discussed. **Grading: A-F grading only.**

HCA 6204 - Business, Legal, and Ethical Aspects of Health Informatics

Units: 4

Introduction to students to the unique business, legal, and ethical issues of using telehealth. Legal and regulatory requirements as well as ethical considerations for health informatics systems, such as FDA regulations and AHIMA, are discussed. **Grading:** *A-F grading only.*

HCA 6205 - Bioinformatics in Health Care Administration

Units: 4

Study of the basic concepts surrounding bioinformation systems. Course topics include bioinformation systems, terminology and standards, bioinformation, configuration, user interface design, computerized physician order entry, decision support, and clinical reporting. **Grading:** *A-F grading only.*

HCA 6206 - Public Health Informatics

Units: 4

Topics include the information needs of public health professionals; barriers and requirements of a public health information infrastructure; public health informatics tools; public health department credentialing; and public health electronic reporting and surveillance, including communicable disease and bioterrorism. **Grading:** *A-F grading only.*

HCA 6210 - Leadership and Change in Health Care Organizations

Units: 4

Issues and practices of health care administrators that impact leadership style. Emphasis on developing capacities for leading health organizations in a changing environment, in particular strategic planning, human resources management, facilitation, negotiation and collaboration skills, as well as those needed for innovation and creative management practice. **Grading:** *A-F grading only.*

HCA 6225 - Organization Theory and Behavior in Health Care

Units: 4

Explores the application of classical and emerging theories in organizational design, behavior, and effectiveness to health care organizations. Topics include organizational purpose, design, structure, change, power and politics; and the impact of internal and external factors on structure and design. **Grading:** *A-F grading only.*

HCA 6230 - Information Technology in Health Care

Units: 4

The impact of information systems on the design and delivery of health care; different information technologies; use of information systems in policy making and quality assurance and improvement; relationship of information technology to organizational design. **Grading:** *A-F grading only.*

HCA 6240 - Health Care Financing and Budgeting

Units: 4

Functioning of health care markets; impact of economic incentives on health care decision-making; U.S. health care financing; impact of uninsured; role of nonprofit organizations; impact of managed care model; forecasting expenditures; role of technology, prices, utilization rates, and demographics. **Grading:** *A-F grading only.*

HCA 6250 - Strategic Management of Health Care Organizations

Units: 4

Explores the application of strategic management principles to health care organizations. Topics include analyzing the external and internal environments, responding to change, developing mission and goal statements, strategy formulation, evaluation of strategic alternatives, and implementation. **Grading:** *A-F grading only.*

HCA 6260 - Health Care Policy Analysis

Units: 4

The health care policy process; impact of health care on broader social policy; influence of political and economic forces on health policies; impact of emerging models of health care such as community-based programs. Critical analysis of market-based models. **Grading:** *A-F grading only.*

HCA 6270 - Health Care Management

Units: 4

Develop the knowledge and skills needed to manage organizational resources: develop clear policies, position descriptions and expectations; build cohesive employee teams, coach and discipline employees, provide effective employee feedback and development, maximize advantages of diversity, and provide leadership. **Grading:** *A-F grading only.*

HCA 6275 - Evolution of Managed Health Care

Units: 4

Overview of managed health care organizations, including their history, evolution, regulation, and financing. The course explores issues that are common to most managed care organizations, including accreditation and performance measurement, compensation, use of incentives, and the regulatory environment. **Grading:** *A-F grading only.*

HCA 6280 - Legal and Ethical Issues in Health Care

Units: 4

Contemporary legal issues in health care administration. Overview of recent health legislation and regulations. Personal and organizational liability; ethical issues in health care administration. Impact of the market model on health care delivery. **Grading:** *A-F grading only.*

HCA 6290 - Health Care Quality Assessment and Improvement

Units: 4

Development of skills in evaluation methods and performance management with particular emphasis on the management of quality, standard setting, and performance assessment processes. Course includes historical beginnings, state-of-the-art voluntary and governmental efforts and proposed means of quality assessment and improvement. **Grading:** *A-F grading only.*

HCA 6893 - Internship in Health Care Administration

Units: 4

Academically challenging field placements in half-time or full-time positions with health care organizations under the supervision of university faculty member. Examination of the relationship of theory to practice in the health care field. **Grading:** *A-F grading only.*

HCA 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Repeatability:** May be repeated for credit, for a maximum of 4 units. **Grading:** *CR/NC grading only.*

HCA 6899 - Project

Units: 4

Development of an original product which is summarized in a written abstract. Both the project and the abstract are submitted to the department, which specifies their formats. Supervision by a departmental faculty member. Oral defense may be required. **Grading:** *A-F grading only.*

HCA 6900 - Independent Study

Units: 1-4

HCA 6999 - Issues in Health Care Administration

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in health care administration. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Health Sciences

HSC 1000 - Introduction to Health Professions Practice

Units: 4

Professional practice in preventive, curative and rehabilitative health care services. Accreditation,

certification and licensing standards. State and Federal regulations on quality assurance and reimbursement policies. **Grading:** A-F grading only.

HSC 1100 - Health: Maintenance of Wellness

Units: 4

Analysis and application of the Wellness concept for healthful living. Instruction in techniques and procedure for self-care, self-examination, emergency care and efficient utilization of the medical care system. **Grading:** A-F grading only.

HSC 2001 - Environmental Factors in Health

Units: 4

Ecological principles applied to interactions between human and environmental systems and how each affects the health of the other. Strategies for preventing and managing environmental crises. **Credit Restrictions:** Not open to students with credit for HSC 3200. **Grading:** A-F grading only.

HSC 2200 - Research and Writing in Health Care

Units: 4

Principles of writing for academic purposes to help health care professionals in practice. Topics covered will include composing abstracts for submission to present at professional conferences, papers for submission to a peer-reviewed journal, and writing literature reviews, position papers, and research proposals and grants to a funding agency. The student will acquire an understanding of the APA formatting and familiarity with how to access health data. **Prerequisites:** ENGL 1002. **Repeatability:** May be repeated once for credit, for a maximum of 8 units. **Grading:** A-F grading only.

HSC 2500 - Principles of Personal Nutrition

Units: 4

Consumer-oriented course on nutrition and food. Basic nutrients and food groups, food and health, food safety, food shopping. **Credit Restrictions:** Not open to students with credit for NURS 2010. **Grading:** A-F grading only.

HSC 2510 - Introduction to Peer Health Education

Units: 3

Theory and practice of peer and community health education drawing from social science and public health disciplines. Exploration of issues and strategies in community health education. **Prerequisites:** HSC 1100 or equivalent, or permission of instructor. **Grading:** A-F grading only.

HSC 2550 - Peer Health Education Practicum

Units: 2-3

Supervised practicum in Student Health Services. Sequel and companion course to HSC 2510.

Prerequisites: HSC 2510. **Repeatability:** May be repeated once for credit, for a maximum of 6 units.
Grading: A-F grading only.

HSC 3100 - Introduction to Global Health

Units: 4

Overview of issues in global health with an emphasis on economically less developed countries. Prevention, transmission, pathology, and treatment of diseases such as tuberculosis, SARS, malaria, and HIV/AIDS and public health measures used to control these problems will be addressed. **Grading:** A-F grading only.

HSC 3200 - Environmental Health

Units: 4

The relationship of the environment to people's health. **Credit Restrictions:** Not open to students with credit for HSC 2001. **Grading:** A-F grading only.

HSC 3250 - Genes and Human Health

Units: 4

Focus on gene structure, organization, mode of action, replication, inheritance, evolution, and how this affects human health. Advanced topics in genomics and resulting therapeutic technologies including gene cloning, stem-cells, gene screening and therapy will be explored. **Prerequisites:** BIOL 1001 or equivalent, consent of instruction, and at least a 2.00 GPA. **Grading:** A-F grading only.

HSC 3300 - Health Care Systems in the U.S.

Units: 4

Overview of systems and organization of US health care, including introduction to current issues. Includes inpatient, outpatient, public health, financing, provider types, and general services provided. **Grading:** A-F grading only.

HSC 3350 - Health Legislation and Government Programs

Units: 4

Current Federal and State health legislation, regulations, and standards, and their effect on professional practice. Historical development of various health programs and their current status. **Prerequisites:** HSC 3300. **Grading:** A-F grading only.

HSC 3400 - Community Health

Units: 4

Health issues facing today's communities. Topics such as epidemiology, community organization, program planning, minority health, elders, mental health, school health, drugs, safety, and occupational health are covered. **Prerequisites:** PSYC 1000 or PSYC 1005. **Grading:** A-F grading only.

HSC 3410 - Epidemiology for Health Sciences

Units: 4

Introduction to the quantitative techniques employed in modern epidemiology to design and interpret relevant studies. Overview of approaches and the statistical methods used to conduct epidemiological research. Familiarity with analytic processes commonly found in the health professions, including descriptive statistics, probability, probability distributions, point and interval estimation, hypothesis testing, chi-square, correlation and regression. **Prerequisites:** *BIOL 1000, STAT 1000*. **Grading:** A-F grading only.

HSC 3550 - Health Care Law and Ethics

Units: 4

An overview of legal and ethical issues encountered by the health care community and practitioners. Regulation, malpractice, business interactions, informed consent, advanced directives and the right to die, reproductive issues and genetic research will be explored from both the legal and ethical perspective. **Prerequisites:** *HSC 1000, HSC 3300 and HSC 3350*. **Grading:** A-F grading only.

HSC 3690 - Health Economics and Public Policy

Units: 4

Economics of health and healthcare. Application of economic theories to public policy in health sector. Cost analysis, healthcare financing, public and private health insurance, and provider reimbursement models. Analysis of medical education, hospital, pharmaceutical, mental health, and long-term care markets. **Prerequisites:** *ECON 2301, HSC 3300*. **Cross-listed:** *ECON 3690*. **Grading:** A-F grading only.

HSC 3700 - Health Behavior and Health Education Theory

Units: 4

Health behavior and health education theories that drive health-behavior change interventions and programs. The analysis and application of these theories as they relate to health promotion and education practices are addressed. **Prerequisites:** *HSC 1100 or equivalent*. **Grading:** A-F grading only.

HSC 3720 - Medical Humanities

Units: 4

Introduction to the role of culture in health. Exploration of the importance of humanities in developing empathy, observation and self-reflection-skills necessary in health care. Human experience of illness will be explored. Hybrid course. **Prerequisites:** *ANTH 1000 or SOC 1000*. **Grading:** A-F grading only.

HSC 3800 - Multicultural Issues in Health Care

Units: 4

The complex transcultural issues surrounding delivery and acceptance of health care. Impact of cultural values and ethnicity on understanding health and illness, and the utilization of health care services.

Concepts and definitions of culture, ethnicity, traditional health beliefs, health and illness. **Prerequisites:** SOC 1000, or SOC 1002, or ANTH 1000 or permission of instructor. **Grading:** A-F grading only.

HSC 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** At least a 2.0 GPA; departmental approval of activity. A maximum of 8 units will be accepted toward the Health Sciences major. **Repeatability:** May be repeated for credit for a maximum of 8 units. **Grading:** CR/NC grading only.

HSC 3999 - Issues in Health Sciences

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in health sciences. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units. **Grading:** A-F grading only.

HSC 4010 - Research and Program Evaluation in Health Science

Units: 4

Use of scientific research methods to evaluate efficacy of public health prevention programs. Computer lab time included. All 3000-level courses in Health Science and 24 elective units in option area must be completed before taking this course. **Prerequisites:** Permission of instructor. **Grading:** A-F grading only.

HSC 4500 - Supervised Field Training and Report Writing

Units: 3

A supervised internship field experience in a health or health-related setting. Ninety hours fieldwork total. All major requirements, except HSC 4700, and all elective units must be completed before taking this course. Application required. Please visit Health Science website. **Prerequisites:** Graduating senior status, and permission of instructor. **Grading:** A-F grading only.

HSC 4600 - Health Systems Management

Units: 4

Theory and practice of managing integrated systems. Critical review of key changes in evolution of health care organizations. Impact of changes on functions of management; approaches to governing health care organizations. All HSC courses numbered lower than 4500 must be completed before taking this course. **Prerequisites:** Permission of instructor. **Grading:** A-F grading only.

HSC 4650 - Advanced Principles of Health Care Management

Units: 4

Course Content: Provides students with advanced principles of health care management. Designed to

prepare students for upper-level management roles in healthcare organizations. **Prerequisites:** HSC 4600.
Grading: A-F grading only.

HSC 4700 - Senior Seminar

Units: 4

Capstone course. Integration and synthesis of knowledge, skills and internship work. *All Health Science courses required for the major and 28 elective units in option area must be completed before taking this course. Application required. Please visit Health Science website.* **Prerequisites:** Graduating senior status, and permission of instructor. **Grading:** A-F grading only.

HSC 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

History

HIST 1014 - World Civilizations I

Units: 4

To ca. 800. Neolithic revolution. River Valley civilizations: Egypt, Mesopotamia, India, China. Ancient Hebrews. The Mediterranean: Hellenic, Hellenistic, and Roman civilizations. Emergence and spread of Christianity and Islam. Gupta India. **Credit Restrictions:** Not open to students with credit for HIST 1017.

HIST 1015 - World Civilizations II

Units: 4

Ca. 800 to ca. 1700. Empires and civilizations: Sung China, Japan, West Africa, Byzantium, Abbasid Iraq and Islamic Spain, Aztecs and Incas, Christian Europe and feudalism. Eurasian migrations. European self-transformation and expansion. Monarchic states and market economies. Scientific revolution. **Credit Restrictions:** Not open to students with credit for HIST 2018.

HIST 1016 - World Civilizations III

Units: 4

Ca. 1700 to present. European absolutism. Enlightenment and democratic revolutions. Industrial capitalism and social transformation. Liberalism, conservatism, nationalism, socialism. Imperialism in East Asia, India, Middle East, Africa. Second scientific revolution. World Wars, Communism, Fascism. Cold War and end of colonialism. **Credit Restrictions:** Not open to students with credit for HIST 2019.

HIST 1017 - Ancient World Civilizations

Units: 4

An overview of ancient world civilizations throughout the medieval period. Egypt, Mesopotamia, India,

China. Ancient Hebrews. Hellenic, Hellenistic, and Roman civilizations and the emergence and spread of Christianity and Islam. **Credit Restrictions:** Not open to students with credit for HIST 1014.

HIST 1101 - History of the United States to 1877

Units: 4

A survey of the development of the American nation from colonial times to the close of Reconstruction. This course, when combined with credit for History 1102, meets statutory requirements in U.S. History, U.S. Constitution, and California State and Local Government.

HIST 1102 - History of the United States Since 1877

Units: 4

A survey of American history from Reconstruction to the present. This course, when combined with credit for History 1101, meets statutory requirements in U.S. History, U.S. Constitution, and California State and Local Government.

HIST 2010 - Introduction to History

Units: 4

Seminar on historical study as academic discipline. Focus on historical argument, interpretation of evidence and sources, source citation, and oral expression. Introduction to historical writing, historiography, and library and Internet research. **Credit Restrictions:** Not open to students who have taken HIST 1000.

HIST 2040 - Humanity, Science and Nature in History

Units: 4

Attitudes toward humanity's place in the natural world as revealed in historical documents from Classical times to the present. The rise of science and the Romantic reaction. The development of modern environmental concerns in historical context. **Credit Restrictions:** Not for use in the History major. **Grading:** A-F grading only.

HIST 3010 - Historical Writing

Units: 4

Seminar on writing and revision of reviews, essays, and research papers through study of selected historical topics. Emphasis on form, argument, organization, source citation, and oral presentation. **Prerequisites:** HIST 2010.

HIST 3017 - The Twentieth Century

Units: 4

World history from WWI to Soviet collapse, focusing on diplomacy, economics, and political/social

trends. The world wars, Russian revolution and Stalinism, fascism and Nazism, Chinese Revolution, Cold War, decolonization and end of Western hegemony, globalization of world economy.

HIST 3100 - Ancient Egyptian Civilization

Units: 4

Survey of ancient Egyptian history, civilization, art, and religion from about 3100 B.C. to the conquest by Alexander the Great (332 B.C.).

HIST 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity. A maximum of 5 units will be accepted toward the History major.* **Repeatability:** May be repeated for credit for a maximum of 5 units.

HIST 3999 - Issues in History

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in history. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

HIST 4010 - History Internship

Units: 4

Supervised work that integrates academic learning and field experience. Introduces students to various career tracks in the historical profession. **Prerequisites:** *HIST 3010; 3.5 major GPA; consent of instructor and partnering agency.* **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units. **Grading:** *CR/NC grading only.*

HIST 4030 - Historiography

Units: 4

Development of historical writing from antiquity to present. Emphasis on Herodotus, Thucydides, St. Augustine, Vico, Hegel, Marx, and 20th century historians. Survey of other significant historians. **Prerequisites:** *Senior standing and HIST 1014-HIST 1015-HIST 1016, HIST 2010, and HIST 3010 or consent of instructor.*

HIST 4031 - Historical Research Methods

Units: 4

Seminar on advanced historical research through preparation of research paper based on primary sources. **Prerequisites:** *Senior standing; HIST 1014-HIST 1015-HIST 1016, HIST 2010, and HIST 3010 or consent of instructor.*

HIST 4032 - Introduction to Public History

Units: 4

The use of historical theory and method in non-academic settings, including museums, archives, consulting organizations, historical societies, government agencies, business, and historical preservation projects. Field trips may be required.

HIST 4033 - Introduction to Teaching History

Units: 4

Seminar in teaching history at the K-16 level. The course presents an overview of the way history has been taught in the U.S.; a survey of current pedagogical trends; use of primary sources in the history classroom; methods for developing curriculum. May not be used to replace HIST 4030 or HIST 4031 in the History Major. **Prerequisites:** HIST 3010.

HIST 4500 - The California History/Social Science Framework

Units: 1

Content review of California K-12 History-Social Science Framework for prospective teachers. Enrollment only in final quarter of Subject Matter Preparation Program in Social Science. **Credit Restrictions:** Not for credit in History major or minor.

HIST 4710 - History and Trends in Nursing

Units: 4

Survey of the development of modern nursing. Emphasis on social trends that have influenced the development of nursing; the Judeo-Christian tradition; the military heritage; the women's movement; developments in health care delivery.

HIST 4900 - Independent Study

Units: 1-4

Supervised study. **Prerequisites:** *Consent of instructor.* **Repeatability:** May be repeated for credit with consent of instructor, for a maximum of 12 units.

History: Asia

HIST 3302 - Modern East Asia Through Film

Units: 4

Individualism, gender relations, family life, nationalism, and imperialism in 19th and 20th century China, Japan, and Korea through films produced in East Asia and elsewhere.

HIST 3303 - Precolonial India

Units: 4

Ancient and medieval South Asia (Indian subcontinent) from Indus Valley Civilization to 18th century. Hinduism and Buddhism; introduction of Islam and formation of Indo-Muslim society; religious and ethnic communities; creation of states and empires; arrival of Europeans.

HIST 3305 - Modern South Asia

Units: 4

History, culture and political economy of the Indian subcontinent from the seventeenth century to present. Decline of Mughal empire, British colonial conquest, anti-colonial resistance, nationalism and religious identity, Gandhi, independence, post-colonial India, Pakistan, and Bangladesh.

HIST 3307 - Modern India through Film

Units: 4

The history of nation, class, caste, gender, sexuality, community, and diaspora as documented in Indian film. Special focus on Bollywood. Weekly readings and discussions.

HIST 3311 - Traditional China

Units: 4

China from classical antiquity to the 19th century; intellectual trends, political developments, and social changes.

HIST 3312 - Modern China

Units: 4

China from the Opium War to 1949. The collapse of imperial China, Western incursions, the emergence of modern culture, and the roots of the Communist revolution.

HIST 3313 - People's Republic of China

Units: 4

The socialist experience in China from 1949 to the present: the leadership of Mao Zedong, the Cultural Revolution, and changes in urban and rural areas in the post-Mao era.

HIST 3322 - Early Japan

Units: 4

Cultural, social, and political history of Japan to 1800. The aristocracy, the samurai, and the impact of Asian continental culture.

HIST 3323 - Modern Japan

Units: 4

Japan as an industrial and imperialist power from traditional foundations to defeat in World War II. Modern culture, party politics, and social problems.

HIST 3325 - Postwar Japan

Units: 4

The political, social, and cultural dimensions of Japan's transformation from defeated nation in 1945 to world economic power today.

HIST 3340 - The Middle East and Rise of Islamic Societies

Units: 4

Middle East from 600 to 1750. Beginnings of Islam; establishment of Muslim rule from Spain to Central Asia; emergence of Islamic civilization and contributions by non-Muslims; religious, political, and intellectual debates; contacts with Europe and Asia; establishment of Turkish power.

HIST 3345 - The Modern Middle East

Units: 4

Emergence of states and societies of the modern Middle East. Disintegration of pre-modern empires and evolution of traditional societies into modern nation-states of the Arab world, Turkey, and Iran; response to Western colonialism; socio-religious reform; Islam and nationalism; pan-Arabism; militant Islam.

HIST 3803 - Topics in Asian History

Units: 4

Reading, discussion, and research on selected topics in Asian history. **Repeatability:** May be repeated for credit when content varies.

History: Europe

HIST 3005 - Frankenstein: The Making of a Myth

Units: 4

Mary Shelley's classic tale Frankenstein against the background of the Romantic movement. The Frankenstein story in literature, film, and other forms of popular culture as a critical insight into modern science and technology.

HIST 3107 - History of Ancient Greece

Units: 4

From the Bronze Age to Alexander the Great. The Homeric World; the development of the city-state; classical thought and culture; the Persian and Peloponnesian Wars; the rise of Macedon.

HIST 3108 - History of Ancient Rome

Units: 4

Politics and society in Rome from foundation to AD 565. Etruscans; Republic and Punic Wars; Julius Caesar; Age of Augustus, and the pax Romana; paganism and Christianity; barbarian incursions; decline of empire in the West. **Credit Restrictions:** Not open to students with credit for HIST 3109 or 3110.

HIST 3114 - History of Early Christianity

Units: 4

Topics of study include the Jewish and Roman backgrounds, the historical Jesus, the influence of Paul, and the development of Christian institutions in the first four centuries.

HIST 3123 - History of Medieval Christianity

Units: 4

The Christian faith and its institutions from ca. 500 to ca. 1500: development of church hierarchy, monasticism, conflicts between secular and ecclesiastical authority, the medieval university, theology, maintaining an orthodox faith, and Christianity as perceived and practiced by ordinary Christians.

HIST 3125 - Women in Medieval and Early Modern Europe

Units: 4

Women's political, economic, religious, domestic, and educational spheres in medieval and early modern Europe. Includes primary sources and emphasis on historical interpretation.

HIST 3127 - Europe in the Early Middle Ages

Units: 4

European society and politics, 300-1150. Fall of Rome; Germanic kingdoms; Benedictine monasticism; rise of the papacy; pagans and conversion; Carolingian Renaissance; Viking invasions; Gregorian Reform.

HIST 3128 - Europe in the Later Middle Ages

Units: 4

European society and politics, 1150-1400. Popular religion; the Crusades; heresy and the Inquisition; kings and law; growth of towns and trade; bubonic plague and dissolution of the medieval order.

HIST 3130 - Renaissance and Reformation Europe

Units: 4

Europe, 1350-1550. Politics, economics, arts, humanism, and science in the Renaissance; the Protestant and Catholic Reformations. **Credit Restrictions:** Not open to students with credit for HIST 3131.

HIST 3150 - Early Modern Europe, 1550-1789

Units: 4

Wars of religion, constitutional and absolutist struggles and the resulting political philosophies; age of exploration and discovery; intellectual and technological effects of the scientific revolution; age of Enlightenment.

HIST 3160 - Europe in the 19th Century

Units: 4

The Revolutionary and Napoleonic legacy; Romanticism, Liberalism, and Socialism; the Revolutions of 1830 and 1848; Nationalism and the consolidation of states; Darwinism and its social ramifications; European imperialism and the First World War.

HIST 3170 - Europe in the 20th Century

Units: 4

Europe's tumultuous century. Two World Wars; rise and fall of fascism and Communism; decolonization; changing attitudes toward social class, sexuality, and the family.

HIST 3223 - History of the Soviet Union

Units: 4

The revolutionary movement in Russia, Marxism-Leninism, the Provisional Government and the Bolshevik coup, domestic and foreign affairs under Lenin and his successors.

HIST 3224 - The Cold War

Units: 4

History of the Cold War from 1939 to the fall of the Berlin Wall in 1989.

HIST 3230 - Science and Medicine to 1700

Units: 4

Major developments in Western science, medicine, and natural history from antiquity through the seventeenth century. Examines early attempts by philosophers, mathematicians, and physicians to understand nature and the human body. Origins of the scientific method.

HIST 3801 - Topics in European History

Units: 4

Reading, discussion, and research on selected topics in European history. **Repeatability:** Repeatable for credit when content is different.

History: Graduate

HIST 6010 - Seminar in History

Units: 5

Historical methodology including critical analysis and use of source materials, research and writing. Investigation of selected topics in political, economic, diplomatic, intellectual, and social history. Reports and discussion.

HIST 6030 - Graduate Historiography

Units: 4

Intensive readings in the classics of historical writing and the philosophy of history. Written critical analyses, both in- and out-of-class, are required.

HIST 6050 - History Graduate Portfolio

Units: 4

Preparation of professional portfolio of graduate work; presentation of original research in oral form suitable for conference participation; evaluation of work by class; revision of HIST 6010 or capstone work for consideration for publication in graduate e-journal; digital literacy.

HIST 6100 - Conference Course in Ancient and Medieval History

Units: 4

Readings and discussion in the significant historical literature of ancient and medieval Europe emphasizing the chief areas of historical controversy and interpretation. Study of the major historians. **Repeatability:** May be repeated once for credit with other professors, for a maximum of 8 units.

HIST 6200 - Conference Course in European History

Units: 4

Readings and discussion in the significant historical literature of modern Europe emphasizing the chief areas of historical controversy and interpretation. Study of the major historians. **Repeatability:** May be repeated once for credit with other professors, for a maximum of 8 units.

HIST 6300 - Conference Course in Asian and Middle Eastern History

Units: 4

Readings and discussion in the significant historical literature of Asia emphasizing the chief areas of historical controversy and interpretation. Study of the major historians. **Repeatability:** May be repeated for additional credit with other professors, for a maximum of 8 units.

HIST 6400 - Conference Course in United States History

Units: 4

Readings and discussion in the significant historical literature of the United States emphasizing the chief

areas of historical controversy and interpretation. Study of the major historians. **Repeatability:** May be repeated for credit with other professors, for a maximum of 16 units.

HIST 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Repeatability:** May be repeated for credit for a maximum of 5 units.

HIST 6899 - Project

Units: 1-4

Development of an original product which is summarized in a written abstract. Both the project and the abstract are submitted to the department which specifies their formats. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense may be required.

HIST 6900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit, with consent of History Graduate Coordinator, for a maximum of 12 units.

HIST 6901 - Internship in Public History

Units: 1-5

Supervised field work in non-academic settings, such as museums, libraries, archives, private business and government agencies, or historical preservation programs. **Repeatability:** May be repeated for credit, for a maximum of 5 units.

HIST 6905 - Directed Readings in History

Units: 1-4

Selected readings in consultation with two faculty members in preparation for the Master's Comprehensive Written Examination in history. The reading list and the exams must be consistent with the student's areas of concentration and approved by the faculty mentors.

HIST 6909 - Departmental Thesis

Units: 1-4

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required.

HIST 6910 - University Thesis

Units: 1-8

Development and writing of a formal research paper for submission to the University in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See also "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course.

HIST 6999 - Issues in History

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in history. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

History: Latin America

HIST 3600 - Colonial Latin America

Units: 4

Relations among the colonists, Crown, Church, and Indians during and after the Spanish conquest. The catastrophic fall in the Indian population, the rise of the great estate, and the decline of Iberian power in the New World at the end of the eighteenth century.

HIST 3605 - Modern Latin America

Units: 4

Latin American history from 1810 to 1950. Emphasis on process of independence, state formation, national consolidation, and neocolonialism in the nineteenth century. The rise of nationalism and social revolution after 1910.

HIST 3622 - Mexico Since 1810

Units: 4

The development of Mexico from the wars of independence; evolution of political, economic, and social institutions.

HIST 3632 - Film and Society in Latin America

Units: 4

Film as a reflection of major themes and issues in Latin America, e.g., slavery and race relations, women's role in society, emergence of the military as a dominant political force, U.S. attitudes toward Latin America.

HIST 3804 - Topics in Latin American History

Units: 4

Reading, discussion, and research on selected topics in Latin American history. **Repeatability:** May be repeated for credit when content varies.

History: United States

HIST 3400 - America to 1900

Units: 4

Survey from colonial times to 1900. For partial fulfillment of subject matter preparation in history and social science for the multiple-subject teaching credential. **Credit Restrictions:** Not for history major credit.

HIST 3411 - Colonial America

Units: 4

Development of the British mainland colonies from frontier societies to the Age of the American Revolution. Topics include Native American background, European expansion, regional variation, mercantilism, slavery, cultural diversity, and the rise of colonial political institutions.

HIST 3412 - The American Revolution

Units: 4

The creation of the American republic, 1763-1800. Imperial politics, loyalism, and the war; postwar changes in constitutions, politics, slavery, gender relations, and the frontier.

HIST 3413 - The New Republic

Units: 4

The expansion of the new republic, 1800-1850. Democratic politics, early industrialization, the Cotton South, reform movements, the Mexican-American War, and California.

HIST 3414 - Civil War and Reconstruction

Units: 4

The Civil War and American society, 1850-1877. Causes, content, and consequences of America's bloodiest conflict.

HIST 3415 - America in the Age of Empire

Units: 4

The rise of imperial America, 1877-1920. Industrialism, mass immigration, urbanization, populism, progressivism, foreign expansion, and World War I.

HIST 3416 - The Great Depression and World War II

Units: 4

The modernization of the United States, 1920-1945. The modernist 1920s, origins and impact of the Great Depression, the New Deal, mass culture, World War II and mass mobilization.

HIST 3417 - Cold War America

Units: 4

The United States in the postwar era, 1945-1989. Prosperity, anticommunism, the Civil Rights Movement, Vietnam and the 1960s, Watergate, internationalism, and the end of the Cold War.

HIST 3500 - History of California

Units: 4

California history from early days to the present, emphasizing the influence of geography, natural resources, and a growing population. Satisfies requirement in California state and local government.

HIST 3503 - History of the San Francisco Bay Area

Units: 4

The settlement of the Bay Area from the Indian period through the twentieth century, stressing the influence of natural environment, population growth, ethnic assimilation, transportation, urbanization, and economic development on the evolution of a regional culture.

HIST 3505 - California Environmental History

Units: 4

California environmental history from the Indian period to the present. Varying interactions between human societies and the natural environment, the deterioration and exhaustion of natural resources, and recent efforts to promote greater environmental balance.

HIST 3511 - The American West

Units: 4

Westward expansion of the United States from 1763 to 1900; development of western states and effect on the history of the nation.

HIST 3515 - Mexican Americans and the West

Units: 4

The historical evolution of northern Mexico. Acquisition of the Southwest by the United States. Social, economic, and political development of region, with emphasis on the role and social condition of the Mexican-American people.

HIST 3517 - The Immigrants' West

Units: 4

The movement and interaction of diverse ethno-racial groups within the American West, focusing on the 19th and 20th centuries. Indigenous peoples, Hispanic-Anglo frontier, trans-Pacific migration, exclusion and restriction, Depression-era migrants, inter-racial mixing, the new western immigration.

HIST 3530 - The Shaping of North America, 1492-1850

Units: 4

Major topics in the formation of North American societies, including Native American peoples, impact of European expansion, Africans in the West Indies, environmental transformation, creation of U.S. and California. Visual documentation of North American cultures.

HIST 3535 - American Indian History

Units: 4

Pre-contact to the present. The diversity of native life in North America; engagement and conflict with Europe; responses to the territorial expansion of the United States; the persistence of Indian communities; political and legal issues in Indian Country.

HIST 3538 - American Indians in the 20th Century

Units: 4

1890 to the present. American Indian life at the turn of the 20th century; colonization and responses; political relationship to the United States government; cultural and political resurgence; the development of the legal and political doctrine of tribal sovereignty.

HIST 3547 - The United States and Modern War

Units: 4

The experience of United States men and women in modern war from 1861 to the present. Why people go to war, soldiers' daily life, combat experiences, technology of warfare, life on the home front, and war in literature and film.

HIST 3550 - The History of U.S. Foreign Relations

Units: 4

Selected problems of American foreign relations, including the American Revolution, expansion and conflict, isolationism and internationalism, the Cold War and terrorism. Consideration of the State Department and of diplomatic practice in their historical context.

HIST 3553 - Modern American Thought and Culture

Units: 4

Intellectual, political, and cultural ideas, ideologies, and movements in twentieth-century United States.

Focus on Progressivism, Pragmatism, the Romantic Left, Socialism, Unionism, Utopianism, Liberalism, the New Left, and Conservatism.

HIST 3557 - Digging in the Dirt in American History

Units: 4

A cultural and environmental history of gardens in the US used to discuss larger concepts of environmental justice, food politics and sustainable agriculture.

HIST 3570 - The Family and Sexuality in American History

Units: 4

Development and diversity of family life in U.S. from pre-colonial beginnings to present. Regional and racial family patterns; responses to urbanization and industrialization; African American families during and after slavery; development of companionate family; changing role of families.

HIST 3571 - Women in American History

Units: 4

Survey of female gender roles and women's contributions to and place in the social, economic, and political life of the nation from colonial times to the present across ethnicity, race, and class.

HIST 3572 - American Women in the Twentieth Century

Units: 4

A multicultural exploration of the revolutionary changes in female gender roles and women's lives. Topics include the ballot box, social movements, the workplace, family and sexuality, the military, and popular culture, with attention to continued inequalities.

HIST 3802 - Topics in United States History

Units: 4

Reading, discussion, and research on selected topics in United States history. **Repeatability:** May be repeated for credit when content varies.

Hospitality and Tourism

HOS 1100 - Introduction to Hospitality and Tourism

Units: 4

Establish the basic knowledge about hospitality and tourism including travel, roles in the industry, sector functions, history of travel and tourism. Explore the cultural, environmental, and economic impacts of tourism and hospitality on localities, regions, and countries. **Grading:** A-F grading only.

HOS 3999 - Issues in Hospitality and Tourism

Units: 4

Readings, discussion, research, and applications on contemporary and/or significant issues in Hospitality and Tourism. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

HOS 4502 - Special Events Management 2

Units: 4

Planning and implementing of special events. Topics include event planning, coordination, research, marketing, revenue generation, sponsorship, programming, media relations, volunteers, risk management, and evaluation. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

HOS 4505 - Hospitality Information Technology

Units: 4

Examination of technology-based systems in the hospitality industry including global distribution systems, yield management, property management, etc. Investigation of information technology to solve problems and strategically plan for the future. **Prerequisites:** *REC 1000, HOS 1100, REC 2050, REC 2400 or REC 3000 or permission of instructor.*

HOS 4510 - Lodging Management

Units: 4

Examines the physical aspects of hotel operations including, development, classification, organization, management concepts and career opportunities in hotel administration. All phases of hotel administration are examined through case studies, class discussions, lectures and class assignments. This is a project oriented course. **Prerequisites:** *REC 1000, HOS 1100, REC 2050, REC 2400 or REC 3000 or permission of instructor.* **Credit Equivalency:** (Formerly REC 4510.)

HOS 4520 - Promotion of Leisure and Hospitality

Units: 4

Analysis and application marketing for leisure and hospitality organizations. Emphasis on hospitality marketing: specifically on people, product, price, place, partnership, programming, package, and promotion. Evaluation of customers' needs, competition and organizational analysis including current trends. The students will participate in a sales blitz. **Prerequisites:** *REC 1000, HOS 1100, REC 2050, REC 2400 or REC 3000 or permission of instructor.* **Credit Equivalency:** (Formerly REC 4520.)

HOS 4530 - Principles of Meetings, Conventions and Special Events

Units: 4

Examination of the process of planning, promoting, marketing, budgeting and implementing meetings, conventions, expositions and special events, including trade and consumer shows. Each industry segment and its relationship to other segments is reviewed, after which the entire industry is examined. **Prerequisites:** *REC 1000, HOS 1100, REC 2050, REC 2400 or REC 3000 or permission of instructor.* **Credit Equivalency:** (Formerly REC 4530.)

HOS 4540 - Fiscal Leadership for Operational Managers

Units: 4

Introduction for non-financial students to the financial aspects of the hospitality industry. Students will learn how to read financial statements, prepare budgets, forecast costs, and revenue management.

Prerequisites: *REC 1000, HOS 1100, REC 2050, REC 2400 or REC 3000, ACCT 2251 or the equivalent, or permission of instructor.* **Credit Equivalency:** (Formerly REC 4540.)

HOS 4550 - Global Tourism

Units: 4

In depth discussion of tourism across the globe. Emphasis will be placed on environmental, economic, social and cultural impacts of tourism, with a specific focus on sustainable tourism. The host-guest-place relationship is an essential part of this course. **Credit Equivalency:** (Formerly REC 4550.)

HOS 4560 - Food and Beverage Management

Units: 4

Explore principles of food and beverage operations and logistics, including standards, culinary and service trends, management challenges, legal and ethical issues and quality. Interaction with the industry is an essential part of this class. **Prerequisites:** *REC 1000, HOS 1100, REC 2050, REC 2400 or REC 3000, or permission of instructor.* **Credit Equivalency:** (Formerly REC 4560.)

HOS 4570 - Dimensions in Tourism

Units: 4

The principles, practices, and philosophies of tourism are examined and discussed. To acquaint the student with the tourism system's components both supply and demand, and the different functional areas (e.g., marketing and planning) that manage them. **Prerequisites:** *REC 1000, HOS 1100, REC 2050, REC 2400 or REC 3000, or permission of instructor.*

HOS 4590 - Hospitality Law

Units: 4

Exploration of employment discrimination, tort, and contract concepts as applied to the legal aspects of hospitality and tourism management, using relevant federal and state cases and statutes. **Prerequisites:** *REC 1000, HOS 1100, REC 2050, REC 2400 or REC 3000, or permission of instructor.*

HOS 4901 - Hospitality Internship Placement

Units: 2

Internship placement, must meet with advisor two quarters before intended internship, interview with intern sites, get a signed contract. MUST successfully complete LiveSCAN, including background check and fingerprinting. Interviewing techniques, networking and professional expectations will be discussed

with advisor. **Prerequisites:** *Completion of all core and elective classes, or permission of instructor.* **Grading:** *CR/NC grading only.*

HOS 4912 - Hospitality Internship and Senior Project

Units: 4-12

Field experience in hospitality organization in preparation of a professional role. Supervision by agency and university personnel. Student must complete a minimum of 12 hours of credit, a total of 400 hours, and a senior project. **Prerequisites:** *Completion of all core and elective classes, or permission of instructor. May be repeated for credit with consent of department chair, for a maximum of 24 units.* **Credit Equivalency:** (Formerly REC 4912.) **Grading:** *CR/NC grading only.*

Human Development

HDEV 1301 - The Human Condition

Units: 4

Various attempts to find meaning in human existence from the perspectives of human development.

HDEV 2001 - Human Development in Contemporary Society

Units: 4

Introduction to the study of social and environmental problems influencing human development.

HDEV 2010 - Introduction to Early Childhood

Units: 4

Current research methods and findings about the physical, emotional, and intellectual development of children from conception through age 5, with an emphasis on historical trends and cultural contexts.

HDEV 3101 - Lifespan Physical and Cognitive Development

Units: 4

Psychological perspectives on human physical and cognitive development throughout the lifespan.

Prerequisites: *Upper division standing.*

HDEV 3102 - Lifespan Social and Emotional Development

Units: 4

Psychological perspectives on human social and emotional development throughout the lifespan.

Prerequisites: *Upper division standing.*

HDEV 3103 - Social and Cultural Dynamics of Human Development

Units: 4

The influence of socio-cultural contexts on various domains of lifespan development, including family systems, cultural ideologies, social conventions and hierarchies, gender, and workplace. **Prerequisites:** *Upper division standing.*

HDEV 3201 - Theories of Human Development

Units: 4

Critical review of major theoretical approaches to human development from an interdisciplinary perspective. **Prerequisites:** *Upper division standing.*

HDEV 3202 - Research Methods in Human Development

Units: 4

Review of major research designs and techniques for contemporary empirical inquiry into human development. Qualitative and quantitative approaches, including experiments, surveys, ethnography, interviews, and historical methods. **Prerequisites:** *Upper division standing.*

HDEV 3203 - Applying Theory and Methods of Human Development

Units: 4

Application of theories and methods learned in HDEV 3201 and 3202 to people, organizations, and/or settings in the community. Includes a service learning component. **Prerequisites:** *HDEV 3201, HDEV 3202.*

HDEV 3301 - Child Development

Units: 4

Development from conception to pre-adolescence viewed from various perspectives: biological, psychoanalytic, cognitive-structural, stimulus-response, humanistic. Prenatal care and counseling, attachment-separation, parenting and institutional care. **Prerequisites:** *Upper division standing.* **Credit Restrictions:** Not open to students with credit for HDEV 4700.

HDEV 3302 - Foundational Aspects of Adolescent Development

Units: 4

Developmental issues arising during the teenage years-career choice, intimacy, biological changes, and attainment of cognitive, social, biological, and emotional maturity. **Prerequisites:** *Upper division standing.* **Credit Restrictions:** Not open to students with credit for HDEV 4400.

HDEV 3303 - Adult Development and Aging

Units: 4

Normative life crises and transition in adulthood-affective, cognitive, cultural, economic, interpersonal, physiological, social, spiritual, and vocational aspects. **Prerequisites:** *Upper division standing.* **Credit Restrictions:** Not open to students with credit for HDEV 4300.

HDEV 3304 - Girls and Women Across the Lifespan

Units: 4

Examination of development and change in behavior of girls and women from infancy through old age, with emphasis on theory, method, and empirical research. **Prerequisites:** *Upper division standing.*

HDEV 3800 - Human Development and Interaction

Units: 4

Interdisciplinary methodologies (integrating sociocultural and biological perspectives) are examined and applied to understanding the human lifespan in interpersonal contexts.

HDEV 3999 - Issues in Human Development

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in human development. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

HDEV 4010 - Early Childhood Cognitive Development

Units: 4

Theories, methods, and research findings in early childhood cognitive development from the prenatal stage to age five. Biological and genetic foundations of cognition, perception, mental representation, problem solving, reasoning, memory, metacognition, and social cognition. **Prerequisites:** *Upper division standing.*

HDEV 4030 - Early Childhood Social Development

Units: 4

Theories, methods, and research findings in early childhood social-emotional development from the neonatal stage to age five. Topics include emotion and temperament, attachment, identity, achievement, gender roles, pro- and anti-social behavior, morality, peers, and the family. **Prerequisites:** *Upper division standing.*

HDEV 4060 - Creative and Artistic Development in Early Childhood

Units: 4

Theories and research findings related to creative and artistic development during early childhood, from birth to age five. Observation, design, and implementation of activities in visual art, music, dance, or drama.

HDEV 4110 - Child Cognitive Development

Units: 4

Theories, methods, and research findings in child cognitive development from the prenatal stage to age

12. Biological and genetic foundations of cognition, perception, mental representation, problem solving, reasoning, memory, metacognition, and social cognition. **Prerequisites:** *Upper division standing.* **Credit Restrictions:** Not open to students with credit for HDEV 4510.

HDEV 4120 - Child Language Development

Units: 4

Interdisciplinary study of the development of a first language and the biological, linguistic, cognitive, and social factors involved. Development of prelinguistic skills, semantics, syntax, discourse skills, and phonology. Language acquisition theories and hypotheses. **Prerequisites:** *Upper division standing.* **Credit Restrictions:** Not open to students with credit for HDEV 4520.

HDEV 4130 - The Social Development of Children

Units: 4

Theories, methods, and research findings in childhood social-emotional development from birth to age 12. Emotion and temperament, attachment, identity, achievement, gender roles, pro- and anti-social behavior, morality, peers, and the family. **Prerequisites:** *Upper division standing.*

HDEV 4140 - Theories of Childhood

Units: 4

Critical review of major theories of childhood; examination of changes in theories and concepts about childhood over time. **Prerequisites:** *Upper division standing.*

HDEV 4150 - Children in Families and Communities

Units: 4

Child development in a variety of familial, communal, and institutional settings. Issues of child abuse, divorce, foster care, and adoption. **Prerequisites:** *Upper division standing.* **Credit Restrictions:** Not open to students with credit for HDEV 4710.

HDEV 4220 - Contemporary Research Topics in Adolescent Development

Units: 4

Contemporary theories, research, issues and trends in adolescent development. **Prerequisites:** *Upper division standing.*

HDEV 4230 - Prevention and Intervention in Adolescent Development

Units: 4

Research and theory-based approaches to developing and evaluating prevention and intervention programs for adolescents at risk. **Prerequisites:** *Upper division standing.*

HDEV 4310 - Human Development in the Changing Workplace

Units: 4

A study of developmental issues that arise in contemporary work environments; creative professional identities under uncertain conditions of employment, reconciling adult commitments splintered by career demands, and developing interaction skills in work settings rich in human diversity; confronting work place inequalities.

HDEV 4361 - Current Issues in Aging

Units: 4

Research and theory-based approaches to current issues in aging. Topics may include social class, economics, biological changes, policies, and individual differences. **Prerequisites:** *Upper division standing.* **Credit Restrictions:** Not open to students with credit for HDEV 4004.

HDEV 4362 - Aging and Diversity

Units: 4

Interdisciplinary exploration of aging and race, ethnicity, and gender. **Prerequisites:** *Upper division standing.* **Credit Restrictions:** Not open to students with credit for HDEV 4005.

HDEV 4363 - Cognitive Aging

Units: 4

Current theories and research in cognitive changes at advanced age; practical and social implications. **Prerequisites:** *Upper division standing.*

HDEV 4430 - Intimate Relationships Throughout the Lifespan

Units: 4

Nature and structure of parent-child, friendship, and sexual love relations. Developmental changes during childhood, adolescence, adulthood, and old age. **Prerequisites:** *Upper division standing.* **Credit Restrictions:** Not open to students with credit for HDEV 4350.

HDEV 4440 - Lesbian and Gay Lifespan Development

Units: 4

Theoretical models and research relevant to the development of lesbians and gay men; examination of stereotypes and myths. Gender identity, sexual orientation, sexuality, love relationships, friendship networks, family, and community relations. **Prerequisites:** *Upper division standing.* **Credit Restrictions:** Not open to students with credit for HDEV 4325.

HDEV 4450 - Human Development and Conflict in Contemporary Society

Units: 4

Impact and consequences of different forms of conflict on lifespan human development, ranging from

wars and military actions to prisons and domestic violence. Focus on contemporary social conflict using an interdisciplinary social science perspective. Hybrid course.

HDEV 4811 - Senior Research Seminar in Human Development I

Units: 4

Part I of the capstone experience in the major. Design of proposal for independent research to be implemented in HDEV 4812. **Prerequisites:** *Completion of all HDEV Junior Foundation courses; plus 16 additional upper division HDEV units.*

HDEV 4812 - Senior Research Seminar in Human Development II

Units: 4

Part II of the capstone experience in the major. Implementation of the research plan developed in HDEV 4811; preparation of formal research report based on the study. **Prerequisites:** *HDEV 4811.*

HDEV 4860 - Internship in Human Development

Units: 1-4

Supervised work experience that integrates academic learning and field experience, and promotes development of students' professional activities. **Prerequisites:** *Instructor approval.* **Repeatability:** *May be repeated three times for credit, for a maximum of 12 units.* **Grading:** *CR/NC grading only.*

HDEV 4900 - Independent Study

Units: 1-4

Repeatability: *May be repeated for credit with consent of instructor, for a maximum of 12 units.*

Humanities

HUM 2010 - Introduction to Liberal Studies

Units: 4

Introduction to the application of inter- and multidisciplinary perspectives to selected contemporary issues. Emphasis on form, argument, and evidence in written and/or digital presentations. **Grading:** *A-F grading only.*

HUM 3999 - Issues in Humanities

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in humanities. **Repeatability:** *May be repeated for credit when content varies, for a maximum of 8 units.*

HUM 4020 - Senior Seminar

Units: 4

Capstone experience in the major. Emphasis on inter- and multidisciplinary analysis of a significant contemporary issue. Written and/or web-based presentation of research. **Prerequisites:** *HUM 2010*.

Grading: A-F grading only.

Industrial Engineering

INDE 3020 - Work Design and Measurement

Units: 4

Principles of work simplification and motion analysis. Recording of work flow and methods. Work measurement and standards, time study, synthetic data, predetermined time systems, and work sampling. Allowances and performance rating, productivity measures. Work design improvement. Military standards. **Prerequisites:** *PHYS 1001*.

INDE 3101 - Statics and Dynamics

Units: 4

An intermediate introduction to Newtonian mechanics. Analysis of forces on engineering structure in equilibrium, moments, couples, kinematics, energy and gravitation. Analysis of motions of particles and rigid bodies in engineering. **Prerequisites:** *PHYS 1001*.

INDE 3140 - Engineering Economy

Units: 4

Macroeconomic concepts such as inflation, interest rates, banking system, global trade, and exchange rates, fundamental microeconomic concepts of supply and demand, opportunity costs, and comparative advantage. Economic analysis of engineering decisions. Determining rates of return on investments. Effects of inflation, depreciation, and income taxes. Application of basic principles and tools of analysis using case studies. **Prerequisites:** *ECON 2301, MATH 1304*. **Cross-listed:** *ECON 3140*.

INDE 3190 - Human Factors Engineering

Units: 4

Analysis of factors influencing the efficiency of human work. Data on the physical and mental capacities of persons, the physical environment, work organization, and the problem of aging. Human reactions and capabilities related to specific tasks and systems. Design of machines, operations, human computer interface and work environment to match human capacities and limitations, including the handicapped. **Prerequisites:** *PSYC 1000 (or PSYC 1001 or PSYC 1005); STAT 3601/INDE 3601 or STAT 1000*. **Cross-listed:** *PSYC 3190*.

INDE 3601 - Statistics and Probability for Science and Engineering I

Units: 4

(See STAT 3601 for course description.)

INDE 3602 - Statistics and Probability for Science and Engineering II

Units: 4

(See STAT 3602 for course description.)

INDE 3841 - Operations Research

Units: 4

Theory and application of deterministic optimization techniques. Topics selected from project management, networks, linear programming, non-linear programming, game theory and dynamic programming. **Prerequisites:** *MATH 2304*.

INDE 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus activities. **Prerequisites:** *At least a 2.5 GPA, junior or senior standing, departmental approval of activity. A maximum of 4 units will be accepted toward the Engineering major. Grading: CR/NC grading only.*

INDE 3999 - Issues in Industrial Engineering

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in engineering.

INDE 4090 - Economic Decision Systems

Units: 4

Economic evaluation of information for complex decisions. Analysis of risks and uncertainties. Bayes theory and models. Decision theory, sequential decisions, and value of information applied to financial evaluation and control. Major project justification procedures. **Prerequisites:** *INDE 3140, STAT 3601/INDE 3601. Credit Restrictions:* Not open to students with credit for ENGR 6090.

INDE 4100 - Production Planning and Control

Units: 4

Inventory planning and control systems. Implementation of manufacturing resource planning including demand forecasting, production planning, master scheduling, bill-of-material, and inventory master file. Capacity requirements planning and shop floor control. Project management. **Prerequisites:** *ENGR 2070, INDE 3841; STAT 3601/INDE 3601.*

INDE 4180 - Product-Process Design

Units: 4

Investigation of the product and process design cycle as a source of competitive advantage. Topics include functional maps, aggregate planning, cross-functional integration, design for manufacturability,

and the design-build-test cycle. Case studies and site visits used extensively to reinforce concepts presented in lectures and reading assignments. **Prerequisites:** ENGR 2070, INDE 3140.

INDE 4200 - Systems Simulation

Units: 4

Design and analysis of manufacturing and service systems by simulation. Function of random variables. Random number and function generators, programming and characteristics of simulation languages.

Prerequisites: CS 1160, INDE 3841, STAT 3601/INDE 3601.

INDE 4280 - Design and Management of Human Work Systems

Units: 4

Qualitative principles and techniques used to maximize labor productivity, employee satisfaction, and organizational performance in work settings. Topics include worker motivation and incentive systems, leadership, worker autonomy, work groups and participatory organizational structures including quality control circles, total productive maintenance teams, and socio-technical systems. **Prerequisites:** INDE 3020, INDE 3190.

INDE 4300 - Quality Engineering

Units: 4

Quality control, reliability, maintainability, and integrated logistic support. Statistical theory of process control and sampling inspection. Risks associated with decisions based on operating characteristics of control charts and sampling plans. Reliability and life testing methods. Economics of statistical QC.

Prerequisites: ENGR 2070, STAT 3601/INDE 3601.

INDE 4350 - Reliability Engineering

Units: 4

Reliability concepts and mathematical models, mechanical device reliability, electrical device reliability, systems reliability and maintainability, reliability data, assurance program elements. **Prerequisites:** INDE 3601. **Strongly Recommended:** INDE 3841.

INDE 4400 - Systems Modeling

Units: 4

Integration, problem identification, and the application of problem resolution techniques in manufacturing and service domains. System approach to problem identification, description, modeling, and resolutions derived by traditional optimization techniques as well as artificial intelligence methods. Supply chain modeling methods, logistics support analysis, procurement, and outsourcing strategies. **Co-requisites:** INDE 4100.

INDE 4430 - Facilities Planning and Design

Units: 4

Design concepts and input requirements in planning and design of new or renovation of existing manufacturing systems. Product, process, and flow and activity analysis techniques. Flow lines and buffering techniques. Computer-aided layout design and evaluation. Design of handling systems. Math models of location problems. **Prerequisites:** *INDE 3020 and INDE 3841.*

INDE 4440 - Computer Integrated Manufacturing Systems

Units: 4

Introduction to automation, computer aided manufacturing, group technology, computer aided process planning, cellular manufacturing, just-in-time manufacturing, Push and Pull Manufacturing Systems, and production control. **Prerequisites:** *INDE 4100 or concurrent enrollment.*

INDE 4610 - Senior Design I

Units: 3

Development of technical writing and presentation skills through class discussions, proposal writing and presentations. Development of team skills through identification and development of team project proposal and through team building exercises. Utilization of engineering design process and project management techniques in proposal development. Introduction of engineering ethics through case studies.

Prerequisites: *for Engineering Department: Senior standing and departmental approval. For Industrial Engineering Option: any three of INDE 4100, INDE 4200, INDE 4300, INDE 4430. For Computer Engineering Option: CS 4435/CMPE 4435 and CS 4560.*

INDE 4620 - Senior Design II

Units: 3

Utilization of industrial engineering skills and engineering design concepts including development of alternative solutions and economic analysis of alternatives to complete an industrial project. **Prerequisites:** *INDE 4610.*

INDE 4900 - Independent Study

Units: 1-4

Information Literacy

LIBY 1210 - Introduction to Information Literacy

Units: 2

Basic information literacy concepts. Research strategies and appropriate techniques for effectively identifying, acquiring, evaluating, using, and communicating information in various formats. Sections tailored to articulate with courses in first year thematic G. E. sequences in Areas B, C, and D.

Prerequisites: *Enrollment in the First Year Cluster or permission of instructor.* **Credit Restrictions:** Not open to students with credit for LIBY 1551. **Grading:** *A-F grading only.*

LIBY 1551 - Information Skills in the Electronic Age

Units: 2

Instruction and practice in accessing information through print, electronic, and other non-print formats. Includes examination of the Library's collections as well as information available remotely through electronic means. **Credit Restrictions:** Not open to students with credit for LIBY 1210. **Grading:** *CR/NC grading only.*

Information Technology Management

ITM 1270 - Fundamentals of Information Systems and Applications

Units: 4

Fundamentals of Computer Information Systems and applications. Focus on the basics of hardware/software, and applications. Topics include computer components, management information systems, e-commerce, security, ethics, and the role of computers in society. Hands-on applications include using spreadsheet, database, wordprocessing, and web applications. Satisfies digital proficiency requirement. **Credit Restrictions:** Not open to students with credit for CS 1020.

ITM 3060 - Information Technology Management

Units: 4

Effective and efficient uses of computers in business as a problem solving tool. Topics include computer systems components, systems analysis, database management systems, telecommunications, productivity tools, and mini-projects related to computer-based solutions to business problems. **Prerequisites:** *Digital proficiency.*

ITM 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity.* **Repeatability:** May be repeated for credit, for a maximum of 4 units. Units not applicable to options or minor. **Grading:** *CR/NC grading only.*

ITM 3999 - Issues in Information Technology Management

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in information technology management. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

ITM 4271 - Database Management and Applications

Units: 4

Data modeling, database design and implementation, and database applications. Topics include: database

design, incorporating business rules into entity-relationship (ER) models, transformation of an ER model into a relational database design, normalization of database tables, SQL data definition language and data manipulation language, views, and triggers. **Prerequisites:** *ITM 3060*.

ITM 4272 - Information Technology and Telecommunication Systems

Units: 4

Theory and practice of computer networking and data communication management in a business environment. Topics include: network-related technology, standards, protocols, security and design. Primary emphasis on how network and data communication technology integrate with existing corporation architecture and how to identify network solutions to support business objectives.

Prerequisites: *ITM 3060*.

ITM 4273 - Business Intelligence Systems

Units: 4

Computerized support for decision making and business intelligence systems. Specific topics include, but are not limited to: major tools and techniques of managerial decision support, the essentials of business intelligence, data warehousing definitions and architectures, data integration, data visualization, data mining concepts and applications. **Prerequisites:** *ITM 3060*.

ITM 4277 - Information Systems Development and Management

Units: 4

A methodical approach to developing information systems including systems planning, analysis, design, testing, implementation and maintenance. Primary emphasis on learning and practicing techniques and processes used by systems analysts at each phase within the systems development cycle and working as a team to create system solutions for clients. **Prerequisites:** *ITM 3060*.

ITM 4278 - E-Business Systems Development

Units: 4

An overview of the basic knowledge of e-commerce technologies. Primary emphasis is on developing skills in implementing business-oriented systems for electronic commerce using Internet technologies. Topics include: Internet technology components, world wide web, databases, programming, security standards, web authorizing tools, integration with enterprise systems. **Prerequisites:** *ITM 3060*.

ITM 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Information Technology Management: Graduate

ITM 6015 - Information Systems Development and Management

Units: 4

Development of business information technology strategies and solutions for enterprise and global information management systems. Topics include the structure, analysis, design, and implementation of information technology systems. **Prerequisites:** All CBE and University proficiencies, including the UWSR. **Grading:** A-F grading only.

ITM 6130 - Enterprise Management Systems

Units: 4

Design, selection and implementation of enterprise resource management (ERM) and enterprise resource planning (ERP) systems. Emphasis on integration and automation of business functions. Development of practical skills and utilization of enterprise resource planning software. **Prerequisites:** All Fundamental Courses.

ITM 6271 - Database Management and Applications

Units: 4

Data modeling, database design and implementation, database administration, and database applications. Topics include: database design, incorporating business rules into entity-relationship (ER) models, transformation of an ER model into a relational database design, normalization of database tables, SQL data definition language and data manipulation language, views, triggers, data dictionary, and the Internet database environment. **Prerequisites:** All Fundamental Courses.

ITM 6273 - Big Data Technologies and Applications

Units: 4

Key technologies and applications for big data analytics. Topics include: distributed file systems, big data input/output, streaming technologies, techniques for parallel processing, and big data application development. **Prerequisites:** ITM 6015, MGMT 6015. **Grading:** A-F grading only.

ITM 6280 - Data Warehousing

Units: 4

Data warehousing concepts, design, implementation, and software tools. Topics include data warehouse architecture, dimensional model design, physical database design, data integration and visualization, and data warehouse administration. **Prerequisites:** ITM 6271 or instructor consent. **Grading:** A-F grading only.

ITM 6285 - Data Mining

Units: 4

Big data and data mining software applications; introduction to and study of the concepts and technologies of data mining. Topics include data preparation and classification, clustering, prediction, scalability, and data visualization, evaluation and ethical issues in data mining. **Prerequisites:** ITM 6271 or instructor consent. **Cross-listed:** MGMT 6285 **Grading:** A-F grading only.

ITM 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities within the quarter enrolled. **Grading:** CR/NC grading only.

ITM 6899 - Project

Units: 1

Development and writing of business analytics project. Supervision by an ITM faculty member required.

Prerequisites: All fundamental and required coursework: ITM 6015, ITM 6271, ITM 6273, ITM 6280, ITM 6285, MGMT 6015, MGMT 6160, and MGMT 6165. **Grading:** A-F grading only.

ITM 6900 - Independent Study

Units: 1-4

ITM 6909 - Departmental Thesis

Units: 1-4

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a faculty committee, at least one of whom must be a Cal State East Bay faculty member.

ITM 6999 - Issues in Information Technology Management

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in information technology management.

International Studies

INTS 3100 - Global Systems

Units: 4

The wide range of global systems which have evolved to provide a framework for international transactions and problem-solving. Focus on global systems in the areas of politics, economics, mass media, science/technology, and basic human needs. The origins, objectives, and institutional capabilities of existing global systems in each area.

INTS 3999 - Issues in International Studies

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in international studies.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.

INTS 4100 - International Field Work

Units: 2-4

Supervised field placement with a company, non-profit organization or government agency in which a substantial portion of the work experience is internationally related. Foreign placements are encouraged.

Repeatability: May be repeated once for credit for a maximum of 8 units. **Grading:** CR/NC grading only.

INTS 4500 - Senior Seminar

Units: 4

Advanced analysis and evaluation of global systems. Study of theoretical models. **Prerequisites:** INTS 3100.

INTS 4900 - Independent Study

Units: 1-4

Kinesiology

KIN 1000 - Beginning Activities: Badminton

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1001 - Beginning Activities: Basketball

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1007 - Beginning Activities: Swimming

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1009 - Beginning Activities: Volleyball

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1010 - Beginning Weight Training

Units: 1

May be repeated once for credit, for a maximum of 2 units. Two hrs. activity.

KIN 1011 - Beginning Circuit Training

Units: 1

Overall basic aerobic and resistance training for toning, weight loss, and overall body conditioning. Proper warm-up and cool down techniques. Heart rate monitoring. Circuit changes throughout the quarter.

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1012 - Beginning Activities: Fitness Training

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1013 - Beginning Activities: Judo

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1015 - Hapkido Self Defense

Units: 1

Hapkido is a practical martial art emphasizing leverage and blending rather than the use of physical strength as an effective means of self defense. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 1016 - Beginning Activities: Taekwondo Karate

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1017 - Beginning Activities: Soccer

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1018 - Beginning Activities: Self Defense-Women

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1021 - Beginning Activities: Golf

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1024 - Beginning Activities: Tennis

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1028 - Beginning Activities: Jogging

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1032 - Beginning Activities: Aerobic Fitness: Lap Swimming

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1034 - Beginning Activities: Yoga

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1035 - Beginning Activities: Tai Chi

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1036 - Dance Fitness

Units: 1

Course Content: Development of fitness through dance. Basic dance steps for various music types and warm up and stretching instruction. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 1038 - Beginning Activities: Aerobic Fitness: Kick Box

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1041 - Beginning Activities: Aerobic Condition

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1043 - Beginning Pilates

Units: 1

Pilates is a non-impact, integrative exercise method. Fundamentals, basics and beginning mat work. It is designed for strengthening the core muscles to improve posture, limb mobility and overall flexibility and balance. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 1044 - Beginning Boot Camp Fitness

Units: 1

An intense conditioning class that incorporates a full body workout using cardio, strength, endurance, and stretching exercises. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 1045 - Beginning Activities: Firm and Tone

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1047 - Beginning Activities: Indoor Soccer

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1048 - Soccer-Tennis

Units: 1

Activity combining the skills of soccer with the rules of tennis. Focus on skill development and learning rules, strategies, safety, and etiquette. Appropriate for all skill levels from beginning to advanced. **Repeatability:** May be repeated once for credit for a maximum of 2 units. **Grading:** ABC/NC grading only.

KIN 1049 - Beginning Activities: Aerobic Walking

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 1052 - Beginning Water Polo

Units: 1

Course Content: Basic skills required for water polo. Conditioning, ball skills, and strategy. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 1054 - Beginning Flag Football

Units: 1

Emphasis on basic skill development, rules, strategies, safety, and sportsmanship involved in playing both competitively and recreationally. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 1055 - Beginning Table Tennis

Units: 1

Emphasis on basic skill development, rules, strategies, safety, and etiquette necessary to play both competitively and recreationally. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 1056 - Ultimate

Non-stop movement, athletic endurance, aerial passing skills with a disc. Introduction to basic skills and strategy. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 1111 - Physical Activity and Social Justice

Units: 4

Promote lifelong physical activity for all populations. Proper body mechanics, nutrition, and training techniques, and strategies to create meaningful and satisfying physical activity opportunities for all people. Exploration of ways to promote more humane, socially just, and democratic forms of physical activity so that all are given opportunities to gain the benefits of physical activity. Satisfies GE Social Science Area: D1-3.

KIN 1610 - Introduction to Kinesiology

Units: 4

Study of human movement from a humanities, social science, and life science perspective. Topics: history; biomechanics/ exercise physiology; skill learning; psychological/ sociological factors. Career opportunities: health fields (i.e., physical and occupational therapy); exercise professions (i.e., rehabilitation and wellness); educational (i.e., teaching and coaching).

KIN 1625 - Nutrition and Performance

Units: 4

The interrelationship of nutrition and exercise capability. The effect on athletic performance of diet and food additives. **Credit Restrictions:** Not open to students with credit for KIN 1626.

KIN 1626 - Nutrition and Performance for Bodies at Play

Units: 4

The study of the basic principles of food and energy and their effect upon performance and fitness. Topics include a study of nutrients, basic diet, weight management, exercise demands, training principles, fitness development and effective nutritional practices. **Credit Restrictions:** Not open to students with credit for KIN 1625. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

KIN 2000 - Intermediate Activities: Badminton

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2001 - Intermediate Activities: Basketball

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2007 - Intermediate Activities: Swimming

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2009 - Intermediate Activities: Volleyball

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2010 - Intermediate Activities: Weight Training

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2011 - Intermediate Circuit Training

Units: 1

Aerobic conditioning and resistance training for increased toning and overall body conditioning. Proper warm-up and cool down. Heart rate monitoring. Circuit changes throughout the quarter. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 2012 - Intermediate Activities: Fitness Training

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2016 - Intermediate Activities: Taekwondo

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2017 - Intermediate Activities: Soccer

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2024 - Intermediate Activities: Tennis

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2034 - Intermediate Yoga

Units: 1

Introduction to more variations of well-known Yoga positions, emphasizing a balanced approach to Yoga

that embraces relaxation, flexibility, strength and cardiovascular training. Students are encouraged to develop a unique individual practice appropriate for their fitness level and goals. **Prerequisites:** *Previous course in Yoga or consent of instructor.* **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 2035 - Intermediate Activities: Tai Chi

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2038 - Intermediate Activities: Kick Boxing

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2040 - Intermediate Activities: Varied Activities

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2041 - Intermediate Activities: Aerobic Conditioning

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2047 - Intermediate Activities: Indoor Soccer

Units: 1

Repeatability: May be repeated once for credit, for a maximum of 2 units.

KIN 2054 - Intermediate Flag Football

Units: 1

Emphasis on intermediate skills, strategies, safety, and sportsmanship involved in playing both competitively and recreationally. **Prerequisites:** *Beginning or intermediate level flag football course or consent of instructor.* **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 2055 - Intermediate Table Tennis

Units: 1

Emphasis on more advanced and challenging skill development, rules, strategies, safety, and etiquette necessary to play both competitively and recreationally. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 2300 - Nutrition for Healthy Bodies

Units: 4

Basic concepts of personal nutrition and fitness in relationship to a healthy lifestyle; physical and psychosocial factors; various mind-body options. Develop individualized programs for lifelong wellness and the maintaining of healthy minds and bodies. Lecture, team, and class discussions, media aids, and active participation.

KIN 2600 - Prevention and Care of Athletic Injuries

Units: 4

Beginning course in the recognition, management, reconditioning, and prevention of injuries occurring in physical activity. **Strongly Recommended:** BIOL 2010 or equivalent.

KIN 2650 - CPR and First Aid

Units: 2

Adult and pediatric CPR and First Aid. Meets qualifications for Red Cross first aid and CPR certification. **Credit Restrictions:** Not open to students with credit for KIN 4650 or KIN 4651. May be repeated once for credit, for a maximum of 4 units. **Grading:** A-F grading only.

KIN 2700 - Women and Sport

Units: 4

Examination of the cultural dynamics of females and sport from a sociological and historical perspective. **Credit Restrictions:** Not open to students with credit for KIN 1888.

KIN 3072 - Individual and Dual Sports

Units: 3

Theory, analysis, and practice of the skills, techniques, and knowledge necessary for the teaching of individual and dual sports. Participation required. **Prerequisites:** One college-level course in individual sports and one in dual sports, or consent of the instructor.

KIN 3075 - Aquatics and Outdoor Education

Units: 3

Theory, analysis, and practice of the skills, techniques, and knowledge necessary for the teaching of aquatics and outdoor education. Participation required. **Prerequisites:** one college-level course in aquatics and one in an outdoor education activity, or consent of the instructor.

KIN 3079 - Combatives and Fitness Activities

Units: 3

Theory, analysis, and practice of the skills, techniques, and knowledge necessary for the teaching of combatives and fitness activities. Participation required. **Prerequisites:** One college-level course in combative skills and one in fitness activities, or consent of the instructor.

KIN 3080 - Team Sports and Field Sports

Units: 3

Theory, analysis, and practice of the skills, techniques and knowledge necessary for the teaching of team sports and field sports. Participation required. **Prerequisites:** *One college-level course in team sports and one in field sports, or consent of the instructor.*

KIN 3200 - Sport in Film: Cultural Perspectives

Units: 4

Societal values, politics, mores, and individual and group behavior related to sport participation as illustrated in film.

KIN 3205 - Mental Skills for Performance

Units: 4

Mental skills for performance; reviews theory and then provides practical examples of mental skills that can be used in a variety of settings. Topics include: mental imagery, arousal control and self-efficacy, and concentration on video training. **Prerequisites:** *KIN 3350.* **Grading:** A-F grading only.

KIN 3210 - Science of Expertise

Units: 4

Examination of research based evidence on the nature of expertise. The evidence will challenge commonly held beliefs that talent is innate and will, instead, review the literature that supports that motivation, dedicated practice and environment are major contributors. **Prerequisites:** *KIN 3330.* **Grading:** A-F grading only.

KIN 3251 - Physical Education for the Classroom Teacher: Physical Considerations

Units: 4

Examination of activity participation of children; particular emphasis on physical variables. Relationship of exercise physiology, biomechanics, and growth and development to physical activity. Integration of physical activity with classroom activities, in the physical and health sciences.

KIN 3252 - Physical Education for the Classroom Teacher: Psycho-Social Considerations

Units: 4

Examination of activity participation of children with emphasis on psycho-social variables. Topics from the sport and exercise psychology and sport humanities literature as it relates to physical teaching. Integration of physical activity with other classroom activities emphasized.

KIN 3255 - Fitness and Wellness for a Lifetime

Units: 4

Physical and psycho-social factors that contribute to lifelong wellness. Exercise, nutrition, stress and related issues from both conceptual and practical (movement and relaxation techniques) perspectives.

KIN 3300 - Critical Inquiry in Kinesiology

Units: 5

Theory and application of research methods and elementary data analysis related to professional practice in Kinesiology fields. **Strongly Recommended:** STAT 1000.

KIN 3305 - Structural Kinesiology

Units: 4

Anatomical structures as functional determinants of movement. Skeletal, muscular, and nervous systems and their roles in determining movement efficiency. Kinesiological application of anatomical information.

Prerequisites: BIOL 2010 or BIOL 2011. **Strongly Recommended:** BIOL 1001 and CHEM 1100 or equivalents. **Credit Restrictions:** Not open to students with credit for KIN 3331. **Grading:** A-F grading only.

KIN 3310 - Biomechanics

Units: 5

Biomechanics of human movement and the mechanical and muscular analysis of movement patterns.

Prerequisites: BIOL 2010 (or BIOL 2011); KIN 3300, KIN 3305.

KIN 3320 - Exercise Physiology

Units: 5

The physiological parameters and mechanisms that determine adaptations of the physiological systems of human beings in response to exercise. **Prerequisites:** BIOL 2010 (or BIOL 2011); KIN 3300, KIN 3305.

KIN 3330 - Motor Learning and Control

Units: 5

The nature of sensorimotor skills. Analysis of the motor systems and mechanisms of basic sensorimotor integration. An overview of skill acquisition related primarily to sport and exercise. **Prerequisites:** BIOL 2010 (or BIOL 2011); KIN 3300, KIN 3305.

KIN 3340 - Motor Development

Units: 4

Theoretical perspectives relevant in motor development research. Physical growth and maturation process from infancy to old age, including development and aging effects of specific body systems. Relevant social, cultural, psychosocial, and cognitive influences on human movement across the life span.

Prerequisites: KIN 3300 and KIN 3305. **Grading:** A-F grading only.

KIN 3350 - Sport and Exercise Psychology

Units: 5

Theoretical and practical application of psychological factors in sport, exercise, rehabilitation and other physical activity settings. Topics include: motivation, anxiety, observational, learning, imagery, exercise adherence, injury and youth sport participation. **Prerequisites:** KIN 3300 with at least a grade of C. **Grading:** A-F grading only.

KIN 3500 - Advanced Activities: Advanced Badminton

Units: 1

Instruction at advanced level for persons with intermediate level skill. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 3501 - Advanced Activities: Advanced Basketball

Units: 1

Instruction at advanced level for persons with intermediate level skill. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 3510 - Advanced Activities: Advanced Weight Training

Units: 1

Instruction at advanced level for persons with intermediate level skill. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 3516 - Advanced Activities: Advanced Taekwondo

Units: 1

Instruction at advanced level for persons with intermediate level skill. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 3517 - Advanced Activities: Advanced Soccer

Units: 1

Instruction at advanced level for persons with intermediate level skill. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 3521 - Advanced Activities: Advanced Golf

Units: 1

Instruction at advanced level for persons with intermediate level skill. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 3524 - Advanced Activities: Advanced Tennis

Units: 1

Instruction at advanced level for persons with intermediate level skill. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 3534 - Advanced Activities: Advanced Yoga

Units: 1

Instruction at advanced level for persons with intermediate level skill. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 3534 - Advanced Yoga

Units: 1

Exploration of a more vigorous (flowing) Yoga practice with much more emphasis on cardio-vascular system and muscle strengthening routines. Deepening of the knowledge of the relationship between Eastern Yoga Philosophy and Western Kinesiology. **Prerequisites:** At least two quarters of Yoga. Must possess experience in sitting, kneeling, standing, balancing, and prone and supine Yoga positions. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 3542 - Aerobic Instructor Training

Units: 2

Skills and knowledge necessary to teach music-based aerobics classes. Fitness assessment, choreography, routines, and music selection. Students gain experience teaching an aerobics class. **Prerequisites:** Advanced level aerobic skills.

KIN 3545 - Competition Conditioning

Units: 2

Principles of development of personal fitness program. Topics include goal setting, self-assessment of fitness, nutrition principles, and access to on-line information. **Repeatability:** *May be repeated once for a maximum of four units.*

KIN 3547 - Advanced Activities: Advanced Indoor Soccer

Units: 1

Instruction at advanced level for persons with intermediate level skill. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

KIN 3561 - Water Safety Instructor

Units: 2

Development of skills and knowledge leading to American Red Cross Water Safety Instructor certification. **Prerequisites:** Advanced swimming proficiency, American Red Cross Community First Aid and Safety certification or equivalent.

KIN 3600 - Evaluation and Care of Athletic Injuries

Units: 5

Application of kinesiology in the recognition, management, reconditioning, and prevention of athletic injuries. **Prerequisites:** KIN 3305 or permission of instructor.

KIN 3601 - Athletic Training: Modalities and Rehabilitation

Units: 4

Theory and application of therapeutic modalities; design of sports related injury rehabilitation programs. **Prerequisites:** KIN 2600 and 3600.

KIN 3700 - History of Sport and Physical Education

Units: 4

Examination of the history of sport and physical education in the United States from the early 19th century to the present with emphasis on the interplay between sport, social institutions and identity. Satisfies GE Area: C4. *This course not for Kinesiology majors (See KIN 3701 for majors).*

Prerequisites: Junior standing.

KIN 3701 - History of Physical Activity

Units: 4

History of physical activity in the United States from 19th century to the present. Emphasis on the role of science and technology on ideas about the body and human movement. Hybrid course. **Prerequisites:** *Declared Kinesiology Major; KIN 3300.* **Grading:** A-F grading only.

KIN 3735 - Sport, Racism, and Ethnicity

Units: 4

Examines sport as a cultural site that reproduces and challenges racial and ethnic inequalities and ideologies. **Prerequisites:** Upper Division Standing. **Credit Restrictions:** Not open to students with credit for ES 3140.

KIN 3740 - Philosophical Foundations of Kinesiology

Units: 4

Examination of the various ontological, epistemological, and axiological issues in sport with particular attention given to how conceptualizations of embodiment and ethical issues impact sport, physical education, and movement. **Prerequisites:** *KIN 3330.*

KIN 3750 - Sport in Contemporary Society

Units: 4

Examination of sport as a significant social and cultural institution that impacts and is impacted by the

larger society. It analyzes past and contemporary issues and controversies through various sociological frameworks. **Prerequisites:** *KIN 3330*. **Strongly Recommended:** SOC 1000 or SOC 1002.

KIN 3999 - Issues in Kinesiology and Physical Education

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in kinesiology and physical education. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

KIN 4004 - Elementary School Physical Education

Units: 4

Planning, development, implementation and evaluation of physical education programs in culturally diverse settings in grades K-5. Emphasis on games, sports, fundamental rhythms, and dance movements as delineated for instruction by the California State Physical Education Framework. **Prerequisites:** *Kinesiology major or with Instructor Permission*.

KIN 4005 - Exercise Nutrition and Metabolism

Units: 4

Kinesiological discussion of nutrients and ergogenic aids and their interaction within metabolic pathways. Emphasis upon the role of nutrients in bioenergetics and how manipulation of nutrient intake alters energy production during exercise. **Prerequisites:** *CHEM 1100 or equivalent, KIN 3320*.

KIN 4006 - Secondary School Physical Education

Units: 4

Planning, development, implementation and evaluation of physical education programs in culturally diverse setting in grades 6-12 as delineated by the California State Physical Education Framework. Emphasis on games, sports, dance, fitness activities and outdoor education as delineated for instruction by the California State Physical Education Framework. **Prerequisites:** *Kinesiology major or with Instructor Permission*.

KIN 4008 - Adapted Physical Activity

Units: 4

Neurophysiological and functional aspects of psychomotor disabilities. Planning, teaching and evaluating modified physical education activities to meet the needs of exceptional students found in general physical education classes. Participation in laboratory setting required. **Prerequisites:** *Kinesiology major or with Instructor Permission*.

KIN 4010 - Contemporary Perspectives in Exercise Nutrition

Units: 4

Study and application of current issues in exercise nutrition. Emphases on health and fitness program

design and lifestyle management. **Prerequisites:** *KIN 1625, KIN 2600, KIN 4005, KIN 4610. Miscellaneous course fee. See quarterly Class Schedule for current fee.*

KIN 4030 - Professional Field Experience I

Units: 1-4

Instruction in and practice of professional technique and methodology through supervised field work.

Prerequisites: *Completion of skill requirements for the major or minor.* **Grading:** *CR/NC grading only.*

KIN 4031 - Professional Field Experience II

Units: 1-4

Off campus field experience related to degree options. **Repeatability:** May be repeated for credit toward degree/certificate, as follows: Single-Option Majors: a maximum of 4 units credit; Double-Option Majors: each option, a maximum of 4 units credit (8 units total credit). **Grading:** *CR/NC grading only.*

KIN 4051 - Intercollegiate Sports: Basketball (men)

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4053 - Intercollegiate Sports: Baseball (men)

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4054 - Intercollegiate Sports: Cross-country

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4055 - Intercollegiate Sports: Intercollegiate Outdoor Track

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4058 - Intercollegiate Sports: Intercollegiate Golf

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4062 - Intercollegiate Sports: Basketball (women)

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4068 - Intercollegiate Sports: Volleyball (women)

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4069 - Intercollegiate Sports: Soccer (men)

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4074 - Intercollegiate Sports: Softball (women)

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4077 - Intercollegiate Sports: Swimming (women)

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4078 - Intercollegiate Sports: Water Polo (women)

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4083 - Intercollegiate Sports: Soccer (women)

Units: 1

Repeatability: May be repeated for credit according to season, for a maximum of 12 units for each Intercollegiate Sports course.

KIN 4090 - Computer Application in Kinesiology

Units: 4

Using computers as an adaptive, interactive, and exploratory tool for understanding different applications in physical education settings. Word processing, database, spread sheet, multimedia, and Internet applications. **Prerequisites:** *Junior standing.* **Grading:** *A-F grading only.*

KIN 4330 - Clinical Exercise Physiology

Units: 4

Study and practice of techniques for administering/evaluating the results of exercise stress tests; development of comprehensive exercise prescriptions for healthy special populations (e.g., children, elderly, females) and individuals with controlled diseases; role of exercise in the etiology, pathology, prognosis and management of chronic disease. **Prerequisites:** *KIN 3320 and KIN 4610 or equivalent.*

KIN 4600 - Athletic Training Practicum

Units: 2

Supervised clinical experience in techniques of athletic training. **Prerequisites:** *KIN 2600 or concurrent.*
Open only to students in departmental option in athletic training/clinical exercise. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units.

KIN 4610 - Exercise Prescription

Units: 4

Application of kinesiological principles to methods of physical conditioning. Systems of progressive resistance exercise, physical fitness and training. Exercise programs for special conditions and effects. **Prerequisites:** *KIN 3320.*

KIN 4614 - Exercise and Well-Being

Units: 4

The nature of physical activity in relationship to fitness, health, and well-being. Understanding stress and the prevention of diseases related to stress and inactive lifestyles. **Prerequisites:** *Upper division standing.*
Credit Restrictions: Not for KIN major or minor credit.

KIN 4615 - Exercise and Stress

Units: 4

The nature of stress and its relationship to exercise. The physiology of the stress response, its role in disease, and immediate and long term interactions of exercise and stress. **Prerequisites:** *KIN 3320.*

KIN 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Kinesiology: Graduate

KIN 5900 - Independent Study

Units: 1-4

Consult an advisor to determine if this course can be applied to the M.S. degree.

KIN 6000 - Foundations of Graduate Study and Research

Units: 5

Analysis of physical education and kinesiological variables. Scientific thought and inquiry. Application of research methods to specific problems. Statistics/technology module included. **Grading:** *CR/NC grading only.*

KIN 6411 - Psychology of Physical Activity

Units: 4

Psychological issues in physical activity participation. Emphasis on motivation, group processes, psychological health and development, and psychological skills for teaching and performance.

Repeatability: May be repeated once for credit with consent of instructor, for a maximum of 8 units.

Grading: *A-F grading only.*

KIN 6412 - Psychomotor Skill Acquisition

Units: 4

Principles of motor skill learning and skilled performance. Emphases on theory and research in areas of motor learning and motor control as applied to sport, rehabilitation, and physical skill development and performance. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units. **Grading:** *A-F grading only.*

KIN 6413 - Mental Skills for Physical Performance

Units: 4

Theory and practice in the development of psychological skills for learning and performance. Various models and methods are explored with emphasis on cognitive-behavioral methods of educational sport psychology. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units. **Grading:** *A-F grading only.*

KIN 6416 - Exercise Psychology

Units: 4

Application of psychological principles to the promotion and maintenance of exercise. Psychological and emotional consequences of exercise participation. Emphasis on physical activity epidemiology, theories and models of exercise behavior, physical activity interventions, anxiety and exercise, emotional well-

being, self-esteem, health-related quality of life, social influences, and body image. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units. **Grading:** *A-F grading only.*

KIN 6425 - Political Issues in Kinesiology

Units: 4

Current socio-political issues in Kinesiology are examined. Analysis of socio-political forces, key stakeholders, leadership, and mobilization strategies which influence goals and policies. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units. **Grading:** *A-F grading only.*

KIN 6435 - Critical Perspectives on the Body

Units: 4

Explores the ways in which the body has been and is culturally created and shaped by socio-political concerns. The fields of exercise science, health/wellness, physical education, and sport will provide contexts to examine ideological influences on the body. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units. **Grading:** *A-F grading only.*

KIN 6445 - Social Inclusion in Physical Activity

Units: 4

Examines the social processes of exclusion and inclusion as they relate to physical activity, emphasizing a critical examination of the power dynamics of these practices. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units. **Grading:** *A-F grading only.*

KIN 6470 - Seminar in Exercise and Nutrition

Units: 4

Biochemical and physiological responses related to nutrition and performance. **Repeatability:** Course may be repeated once for credit, for a maximum of 8 units.

KIN 6480 - Legal Applications in Kinesiology

Units: 4

Examines the legal and ethical parameters and issues related to all fields associated with Kinesiology. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units. **Grading:** *A-F grading only.*

KIN 6605 - Teaching and Coaching Effectiveness

Units: 4

Research methodology and systematic observation as it relates to the effectiveness of educators in the subfields of Kinesiology. Instructional process of behaviors through describing, analyzing, and interpreting models and critical variables. **Grading:** *A-F grading only.*

KIN 6615 - Sport Education

Units: 4

Current trends in program offerings of Physical Education in grades 4-12. Emphasis on the tendency toward health/wellness-related orientation in Physical Education and the Sport Education Model.

Repeatability: May be repeated once for credit with consent of instructor, for a maximum of 8 units.

Grading: *A-F grading only.*

KIN 6655 - Physiological Perspectives on Health and Wellness

Units: 4

Contemporary issues on health and wellness across the lifespan. Acute and chronic physiological adaptations of physical activity and exercise on health and disease prevention. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units. **Grading:** *A-F grading only.*

KIN 6670 - Training for Physical Performance

Units: 4

Physiological basis of exercise training to enhance physical performance. Emphasis on aerobic, anaerobic, and resistance training principles and program design to optimize performance. Acute responses and longer-term training adaptations will be examined. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units. **Grading:** *A-F grading only.*

KIN 6700 - Seminar: Contemporary Issues in Kinesiology

Units: 4

Selected advanced topics of importance to the discipline of kinesiology.

KIN 6710 - Synthesis in Kinesiology

Units: 4

Focus on developing programs in a range of professional areas Kinesiology. Review history of the field of Kinesiology, current issues in the research and professional fields, and development of issues that take a cross-disciplinary approach. **Grading:** *A-F grading only.*

KIN 6850 - Supervised Research

Units: 2-4

Independent research under direction of faculty. **Repeatability:** May be repeated for credit with consent of advisor, for a maximum of 8 units.

KIN 6899 - Project

Units: 2-5

Development of an original product which is summarized in a written abstract. Both the project and the

abstract are submitted to the department which specifies their format. Supervision by a department committee, at least one of whom must be a Cal State East Bay, faculty member. Oral defense may be required.

KIN 6900 - Independent Study

Units: 1-4

Independent study under direction of faculty. **Repeatability:** May be repeated for credit, with consent of advisor, for a maximum of 8 units.

KIN 6909 - Departmental Thesis

Units: 2-5

Development and writing of a research paper for submission to the department, which specifies its format. Supervision by a department committee, at least one of whom must be a member of the graduate faculty. Oral defense is required.

KIN 6910 - University Thesis

Units: 2-6

Development and writing of a formal research paper for submission to the University in the specified format. Supervision by a departmental committee, at least one of whom must be a graduate faculty member. (See also "University Thesis Writing Guide" available in the Student Services and Administration Building, Suite 4500.) Oral defense required.

Note: see Errata chapter in this catalog for minor change to this course.

KIN 6999 - Issues in Kinesiology and Physical Education

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in kinesiology and physical education. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Management

MGMT 3100 - Decision Science

Units: 4

A survey of statistical data analysis and management science models as they are applied for decision-making in organizations. Topics covered include: regression, correlation, forecasting models, linear programming applications, project management, simulation and decision analysis. Emphasis on usage of appropriate technology and applications of quantitative models. **Prerequisites:** MATH 1810; STAT 2010 or STAT 1000; Digital proficiency satisfied.

MGMT 3110 - Project Management

Units: 4

Analysis of modern methods and tools of project management. Topics include project definition, time and resource scheduling, budgeting, risk management, and performance measurement. Emphasis on developing practical skills in managing projects through case studies and utilization of project management software. **Prerequisites:** *MGMT 3100 or permission of instructor.*

MGMT 3115 - Supply Chain Data Analytics

Units: 4

Quantitative analysis of practical data-driven decisions in operations and supply chain management. Emphasis on determining best decisions, using methods and tools of big data analytics and application-based software. **Prerequisites:** *MGMT 3100, MGMT 3620, or consent of instructor.* **Grading:** A-F grading only.

MGMT 3560 - Business and Professional Ethics

Units: 4

(See PHIL 3560 for course description.) **Cross-listed:** PHIL 3560.

MGMT 3600 - Theories of Management

Units: 4

Management is viewed as a process involving the utilization of human resources to accomplish organizational objectives. Critical analysis of descriptive and normative theories of formal organization, including a consideration of organization structure, communications, planning, and control.

MGMT 3610 - Strategic Human Resources Management

Units: 4

Fundamentals of strategic human resource management from the perspective of human resources professionals and general managers. Focus on how firms use human resource functions, such as recruitment and selection, training and development, performance management, compensation and benefits, to gain a competitive advantage. **Strongly Recommended:** MGMT 3600.

MGMT 3612 - Seminar in Human Resources Management

Units: 4

Contemporary topics in human resources management to extend and integrate knowledge of HRM, and provide innovative HR perspectives and tools. **Prerequisites:** *Junior or higher standing.*

MGMT 3614 - Organizational Behavior

Units: 4

Current theory and research of individual and small group behavior in the organization. **Prerequisites:** *Junior or higher standing recommended.*

MGMT 3616 - Human Resources Assessment and Measurement

Units: 4

Procedures in selecting, placing, and evaluating employees. Topics include job analysis, interviews, ability and psychological tests, innovative assessment methods, and performance appraisals. **Prerequisites:** *MGMT 3614; STAT 2010 or STAT 1000.*

MGMT 3620 - Operations Management

Units: 4

Management operations in manufacturing and service organizations. Topics include: operations strategy in global environment, new product and service development, quality management and control, process and capacity management, supply chain management, inventory control, and lean management.

Prerequisites: *ECON 3551 and MGMT 3100.*

MGMT 3624 - Supply Management and E-Procurement

Units: 4

Current advances in managing supply of goods and services, including strategic sourcing, computerized purchasing, online auction, contract design, enterprise software application, quality control, cost analysis, price negotiation, inventory management, and capital equipment procurement.

MGMT 3626 - Management for Quality Improvement

Units: 4

Elements of total quality management, methods of and techniques in quality assurance, statistical process control and acceptance sampling. Emphasis on decision making and applications in quality improvement.

Prerequisites: *STAT 2010 or STAT 1000.*

MGMT 3645 - Global Supply Chain Management

Units: 4

An integrative perspective of managing supply chain in a global environment. Topics include designing supply chain network, strategic planning, supply chain coordination, resource allocation, capacity design, transportation management, material handling, and information technology in supply chain. **Prerequisites:** *MGMT 3620.*

MGMT 3680 - Employee Relations and Employment Law

Units: 4

The study of employee-management relations, including: the labor force; employment law, regulation and compliance; employee rights; performance management, discipline, and termination; alternative dispute resolution and grievance procedures; collective bargaining and preventative employee relations.

Prerequisites: *FIN 3300; senior or graduating senior, and consent of instructor.*

MGMT 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity.*

MGMT 3999 - Issues in Management

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in management.

MGMT 4500 - Business, Government, and Society

Units: 4

The relationships between business managers and the social, economic, and political environment within which they operate; business ethics, antitrust policy, social responsibility, and consumer protection.

Prerequisites: *Senior standing or permission of instructor.*

MGMT 4520 - Negotiation and Conflict Resolution

Units: 4

Theories and strategies of conflict management within an employment context providing both first and third party skills. Topics include: negotiation, mediation, arbitration, ethics, and managing conflicts in a multicultural environment. **Prerequisites:** *MGMT 3600.* **Grading:** A-F grading only.

MGMT 4615 - Compensation and Reward Systems

Units: 4

Topics include wage and salary determination and administration, incentive compensation, benefits, performance evaluation, career-based incentives, managing turnover, stock options and executive compensation, labor law, unions, and compensation contracts. **Prerequisites:** *MGMT 3610.*

MGMT 4618 - Human Resources Training and Development

Units: 4

Systems approach to human resources training and development. Topics include needs assessments, learning theories, instructional design, training methodologies, presentation techniques, and program evaluation. Students will design and present sample training and development programs. **Prerequisites:** *MGMT 3610 and MGMT 3614.*

MGMT 4625 - Service Operations Management

Units: 4

Methods and practice for operating service business effectively and efficiently. Topics include new service development, analysis of service process, customer relationship management, waiting time reduction, yield management, enterprise resource planning, and information technology in service operations. **Prerequisites:** *MGMT 3620.*

MGMT 4640 - Enterprise Resource Management

Units: 4

Concepts and applications of managing available resources, such as material, labor, capacity, and financial capital, in both service and manufacturing organizations. Emphasis on developing practical skills in Internet era and utilizing modern business software in enterprise resource planning and e-commerce. **Prerequisites:** *MGMT 3620.*

MGMT 4650 - Seminar in Strategic Business Management

Units: 4

Capstone course that takes a top management perspective and integrates the functional disciplines into decision-making. Emphasis on evaluating complex business situations, integrating theory with practice, and presenting comprehensive strategic business plans. **Prerequisites:** *The following prerequisites are required and strictly enforced: FIN 3300; MGMT 3100; MGMT 4500 or ACCT 4911; MKTG 3401.*

MGMT 4660 - Seminar in Operations and Supply Chain Management

Units: 4

Introduction to the most recent developments in operations and supply chain management. Topics include, but not limited to, green supply chain and sustainable operations, healthcare operations, behavioral operations, supply chain risk management, product innovation and technology management, and service operations. **Prerequisites:** *MGMT 3620.* **Grading:** A-F grading only.

MGMT 4670 - Multinational Business

Units: 4

A study of the leading technical, environmental, and management features peculiar to the operation of the U.S. firms in foreign countries. **Prerequisites:** *Senior standing or permission of instructor.*

MGMT 4675 - International Human Resources Management

Units: 4

Seminar on how multinational firms develop human resource functions of recruitment, selection, training and development, performance appraisal, compensation and benefits, to compete internationally. Examine the cross-cultural basis of global HRM. **Prerequisites:** *MGMT 3610; MGMT 3614.*

MGMT 4900 - Independent Study

Units: 1-4

MGMT 6165 - Prescriptive Analytics

Units: 4

Determining the best solution among various choices, suggesting decision options, and illustrating the

implications of each option. Topics include: optimization methods, decision making under uncertainty, queuing models, simulation, and application-based software. **Prerequisites:** *MGMT 6015* or consent of instructor. **Grading:** A-F grading only.

Management: Graduate

MGMT 6015 - Data Analysis and Decision Modeling for Managers

Units: 4

Quantitative modeling and data analysis as they are applied for making managerial decisions in organizations. Topics include regression, correlation, forecasting models, optimization, decision analysis, project management, and simulation. Emphasis on usage of spreadsheet modeling and appropriate software technology. **Prerequisites:** All CBE and University proficiencies, including the UWSR. **Grading:** A-F grading only.

MGMT 6115 - E-Commerce Enterprise Management

Units: 4

Methods and applications of managing material, labor, and finance resources in service and manufacturing organizations utilizing computer-mediated network and World Wide Web. Emphasis on developing practical skills and using modern computer software in enterprise resource planning and e-commerce. **Prerequisites:** All Fundamental Courses and MGMT 6220.

MGMT 6120 - Globalization, Innovation and Sustainability

Units: 4

An integrative overview of personal, organizational, inter-organizational and societal processes of innovation, centered on the central challenges and expanding range of business opportunities relating to environmental and social sustainability found in the context of a globalizing economy. (*Recommended as one of the first core MBA courses.*) **Prerequisites:** All CBE and University proficiencies, including the UWSR. **Grading:** A-F grading only.

MGMT 6125 - Purchasing Management and Strategic Sourcing

Units: 4

Modern techniques in sourcing and negotiation, contract management, supply chain management, and computer-based purchasing systems. Seminar format with case studies and projects.

MGMT 6130 - Enterprise Planning and Control

Units: 4

Modern methods of planning and managing resources in an organization including aggregate planning, enterprise resource planning and control, short-term scheduling, and maintenance. Emphasis on developing practical skills and utilizing modern computer applications in enterprise resource planning and control. **Prerequisites:** All Fundamental Courses and MGMT 6220.

MGMT 6141 - Service Operations Management

Units: 4

Contemporary methods and applications of service operations management, including those in service processes, planning, and scheduling. Seminar format with case studies, problem solving, and use of computer software. **Prerequisites:** All Fundamental Courses and MGMT 6220.

MGMT 6145 - Logistics Management

Units: 4

The physical distribution of goods. Methods of logistics analysis, planning, and scheduling. Use of information technology in logistics and logistics information systems. Logistical support to e-business operations. Emphasis on problem solving and use of computer software. **Prerequisites:** All Fundamental Courses and MGMT 6220.

MGMT 6150 - Global Supply Chain Management

Units: 4

Topics in global supply chain management, including synthesis of global logistics, operations, purchasing, and distribution into a cohesive strategy. Use of information technology, global strategic supply management planning, relationships, and quality. **Prerequisites:** All Fundamental Courses and MGMT 6220.

MGMT 6155 - Applied Project Management

Units: 4

Analysis of modern methods and tools of project management. Topics include project definition, time and resource scheduling, budgeting, risk management, and performance measurement. Emphasis on developing practical skills in managing projects through case studies and utilization of project management software. **Prerequisites:** All Fundamental Courses and MGMT 6220. **Grading:** A-F grading only.

MGMT 6160 - Data Analytics

Units: 4

Examining raw data to draw conclusions about information. Topics include a broad set of analytical methodologies, with a focus on multiple regression methods and time-series applications in big data analytics. **Prerequisites:** MGMT 6015 or consent of instructor. **Grading:** A-F grading only.

MGMT 6215 - Business, Government and Society

Units: 4

Strengthens students' ability to anticipate, critically analyze and appropriately respond to the legal and ethical dilemmas that confront managers in a global economy. This course focuses on the challenges of responsible decision-making in complex, socially diverse business environments. **Prerequisites:** All CBE

and University proficiencies, including the UWSR; All MBA Fundamental Courses. **Grading:** *A-F grading only.*

MGMT 6220 - Operations and Supply Chain Management

Units: 4

Integrative overview of management and control of the processes that create and deliver the goods and/or services of a firm. Topics covered include operations strategy, product/process design, quality management, supply chain management, inventory management, and lean management. **Prerequisites:** All CBE and University proficiencies, including the UWSR; All MBA Fundamental Courses. **Grading:** *A-F grading only.*

MGMT 6225 - Executive Leadership

Units: 4

Managers leverage people to meet and exceed performance expectations. Leadership is a critical means to this end. Practice of visioning, motivating, decision making, communicating effectively, managing group dynamics and using power and influence will establish your path to leadership. **Prerequisites:** All CBE and University proficiencies, including the UWSR; All MBA Fundamental Courses. **Grading:** *A-F grading only*

MGMT 6285 - Data Mining

Units: 4

Big data and data mining software applications; introduction to and study of the concepts and technologies of data mining. Topics include data preparation and classification, clustering, prediction, scalability, and data visualization, evaluation and ethical issues in data mining. **Prerequisites:** *ITM 6271 or instructor's consent.* **Cross-listed:** ITM 6285 **Grading:** *A-F grading only.*

MGMT 6420 - Competitive Strategy

Units: 4

Integrative treatment of competitive strategy, using research findings and cases. Emphasis is on industry analysis, competitive rivalry, and competitive advantage. Objective is to develop an analytical understanding of the factors that contribute to sustainable competitive advantage. **Prerequisites:** All Fundamental Courses.

MGMT 6440 - Global Strategy

Units: 4

Integrative treatment of global strategic management and strategic alliances. Emphasis is on the firm in the global competitive context, decisions to enter markets, how to compete in global markets, and how to develop and implement a global strategy. **Prerequisites:** All Fundamental Courses.

MGMT 6460 - Strategic Management for a Sustainable Society

Units: 4

Examines the strategic management of environmental issues and the functional and strategic responses of firms to deal with environmental issues. The domain of strategy and industry is expanded to incorporate environmental issues. **Prerequisites:** All Fundamental Courses.

MGMT 6470 - Management of Technology and Innovation

Units: 4

Examines the management of technology and innovation, the strategic problems of firms in high technology industries, with special attention to market structure, standards issues, and strategic responses by firms in highly turbulent environments. **Prerequisites:** All Fundamental Courses.

MGMT 6520 - Negotiation for Managers and Entrepreneurs

Units: 4

Managerial and entrepreneurial success requires agreement and collaboration with people both within and between firms. This course will examine a broad spectrum of negotiation settings to help you develop the skills needed to best negotiate deals and resolve problems. These skills build on core communication skills to focus on conflict mapping, distributive and integrative bargaining, alternate dispute resolution methods, and cultural patterns, to develop effective tactics in negotiations. **Prerequisites:** All Fundamental Courses.

MGMT 6560 - High Performance Management

Units: 4

Development of skills essential for high performing managers. Interactive course using combination of self-assessment instruments, experiential exercises, and cases to help you develop critical skills in building and managing high performing teams, communications, goal-setting, empowering people, persuasion, and dispute resolution. **Prerequisites:** All Fundamental Courses.

MGMT 6612 - Strategic Human Resources: Frameworks for General Managers

Units: 4

Application of theories from economics and organizational behavior to analyze core topics in strategic human resources management, including recruitment and screening, training, performance evaluation, compensation and benefits, job design, promotions, downsizing, outsourcing, unions, labor law, internal labor markets, and high-commitment HRM. **Prerequisites:** All Fundamental Courses.

MGMT 6613 - Topics in Human Resource Management

Units: 4

In-depth examination of a specific best practice or current issue in human resource management/industrial relations, such as Creativity and Innovation, Organizational Design and Change Management, or Managing Virtual Teams. **Prerequisites:** All Fundamental Courses.

MGMT 6615 - Strategic Compensation, Incentives, and Productivity

Units: 4

Examines design of compensation and benefits systems to attract, retain, and motivate top talent in a dynamic organizational environment shaped by market, political, legal, and union constraints. Incentive pay, deferred compensation, pensions, layoffs, buyouts, corporate raiding, promotions, performance evaluation, etc. **Prerequisites:** ACCT 6015, ITM 6015, MGMT 6015

MGMT 6618 - Selecting, Maintaining and Retaining Employees

Units: 4

Students will understand regulations regarding hiring, execute successful job analyses for job descriptions, pre-employment selection tools (e.g. behavioral interviews) with psychometric tools, develop training and employee development programs to retain employees, use motivation theory and successfully implement a performance system. **Prerequisites:** All Fundamental Courses. **Credit Restrictions:** Not open to students with credit for MGMT 4618.

MGMT 6622 - Human Resources Analytics

Units: 4

Investigation into the critical role of Human Resources (HR) Management in identifying and analyzing human capital metrics. Topics include HR measurement, HR data analysis, and data-driven decision making in staffing, employee retention, performance management, and employee health. **Prerequisites:** MGMT 6612 or instructor's consent.

MGMT 6675 - International Human Resource Management

Units: 4

Learn to execute global best practice HR functions such as recruitment, selection, compensation and management development of employees the world over in order to stay globally competitive. Understand the impact of national and corporate culture on organizations. **Prerequisites:** All Fundamental Courses.

MGMT 6800 - Seminar in Strategic Management

Units: 4

An integrative capstone experience in which students learn to conduct a strategic situational analysis, identify strategic alternatives and write an implementation plan for a strategic initiative. Real world organizational opportunities relating to globalization, innovation and sustainability will be emphasized. **Prerequisites:** All CBE and University proficiencies, including the UWSR, All MBA Fundamental Courses, minimum of 36 units of core and/or option courses, and application for graduation on file. **Grading:** A-F grading only.

MGMT 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities within the quarter enrolled. **Grading:** *CR/NC grading only.*

MGMT 6900 - Independent Study

Units: 1-4

MGMT 6909 - Departmental Thesis

Units: 1-4

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a faculty committee at least one of whom must be a Cal State East Bay faculty member.

MGMT 6910 - University Thesis

Units: 1-5

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course.

MGMT 6999 - Issues in Management Sciences

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in management sciences.

Marine Science

GEOL 4141 - Geological Oceanography

Units: 6

A study of the structures, physiography and sediments of the sea bottom and shoreline. Field trips may be required. **Prerequisites:** *GEOL 3702*. **Strongly Recommended:** any course in general oceanography (concurrent registration satisfactory). **Credit Restrictions:** Not open to students with credit for GEOL 4141.

GEOL 4142 - Physical Oceanography

Units: 6

An introduction to the nature and causes of various oceanic motions including currents, waves, tides, and mixing and the physical properties of seawater. Limited use of calculus. **Prerequisites:** *College algebra* **Strongly Recommended:** college physics.

GEOL 4143 - Chemical Oceanography

Units: 6

An introduction to the theoretical and practical aspects of the chemistry of the oceans, including major salts, dissolved gases, nutrient ions, carbonate system, transient tracers, and shipboard sampling techniques. **Prerequisites:** *One year college chemistry.*

GEOL 4900 - Independent Study

Units: 1.5-6

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

MSC 4103 - Marine Ecology

Units: 6

A field oriented introduction to the interrelationships between marine and estuarine organisms and their environment with emphasis on quantitative data collection and analysis. **Prerequisites:** *BIOL 3110, STAT 3031 or equivalent and consent of instructor.*

MSC 4104 - Quantitative Marine Science

Units: 6

Mathematical methods for analysis of biological, chemical, and physical data from the marine environment; experimental design, parametric and non-parametric statistics; computers and programming techniques. **Prerequisites:** *Basic college math.* **Credit Restrictions:** Not for Biological Science B.S. degree credit or for Marine Science M.S. degree credit.

MSC 4105 - Marine Science Diving

Units: 4.5

Scientific SCUBA diving course. Diving physics, physiology, dive planning, research diving techniques, marine life identification, and diver rescue. Open water diver training includes navigation, search and light salvage, scientific methods, small boat diving, photography and videography, and night diving. **Prerequisites:** *Certified SCUBA diver (or equivalency as determined by instructor), upper division science major status, thorough physical examination, ability to pass swimming test, instructor's consent.*

MSC 4112 - Marine Birds and Mammals

Units: 6

Systematics, morphology, ecology, and biology of birds and mammals. **Prerequisites:** *BIOL 3580.* **Strongly Recommended:** MSC 4103 as prerequisite.

MSC 4113 - Marine Ichthyology

Units: 6

The taxonomy, morphology and ecology of marine fishes. **Prerequisites:** *BIOL 1403 or BIOL 3580*. **Credit Restrictions:** Not open to students with credit for BIOL 4570.

MSC 4124 - Marine Invertebrate Zoology I

Units: 6

A field oriented introduction to the structure, systematics, evolution and life histories of the major and minor marine phyla. **Prerequisites:** *College zoology or consent of instructor*. **Strongly Recommended:** MSC 4103. **Credit Restrictions:** Not open to students with credit for BIOL 3521-BIOL 3522.

MSC 4125 - Intertidal Invertebrates of California

Units: 4.5

A field oriented introduction to the structure, systematics, evolution and life histories of the minor marine invertebrate phyla. **Prerequisites:** *BIOL 1403*. **Strongly Recommended:** MSC 4103; MSC 4124. **Credit Restrictions:** Not open to students with credit for BIOL 3521-BIOL 3522.

MSC 4131 - Marine Botany

Units: 6

Introduction to the plants of the sea, marshes, and dunes, with emphasis on the morphology, taxonomy and natural history of seaweeds and vascular plants. **Strongly Recommended:** MSC 4103.

MSC 4135 - Physiological Ecology of Marine Algae

Units: 6

Biology of seaweeds and phytoplankton, modern methods in algae physiological research including respiration, enzyme activity, biochemical composition. Modern methods in algae physiological research, hands-on experience in basic electronic instrumentation, chemical separations, optical measurements, culturing methods, radioisotope techniques. **Prerequisites:** *MSC 4103, MSC 4131, MSC 4144, or consent of instructor*.

MSC 4144 - Biological Oceanography

Units: 6

The ocean as an ecological system. Emphasis on the complexity of organismal-environmental interaction of the plankton, the transfer of organic matter between trophic levels and nutrients cycles. Laboratory sessions will include methods in sampling, shipboard techniques, identification of the plankton, and current analytical techniques. **Prerequisites:** *General biology, general chemistry*.

MSC 4900 - Independent Study

Units: 1.5-6

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Marine Science: Graduate

Units are quarter units, class hours are weekly on semester calendar.

MSC 6201 - Graduate Studies in Marine Science: Library Research

Units: 1.5

Fundamental library skills to conduct library research and evaluate sources; extensive introduction to Internet search tools; strong emphasis on ability to critically evaluate bibliographic tools and sources; copyright, intellectual property, and scholarly publishing. **Prerequisites:** *Graduate standing in MLML's program, consent of instructor.*

MSC 6202 - Oceanographic Instrumentation

Units: 6

Principles of instruments used in oceanographic research, introduction to electronics, and applications of instrument measurements. **Prerequisites:** *MSC 4141, 4142, and consent of instructor.*

MSC 6204 - Sampling and Experimental Design

Units: 6

Basic design of experiments and field sampling; random sampling, systematic sampling, subsampling, survey techniques, and design of single and multifactorial experiments using randomized and block experimental designs. **Prerequisites:** *MSC 4103 and MSC 4104.*

MSC 6206 - Molecular Biological Techniques

Units: 6

Laboratory-based overview of concepts and techniques for the isolation, characterization, and analysis of DNA and RNA; standard methods (amplification, cloning, sequencing) and selected specialized techniques (analysis of gene expression), emphasizing marine science applications.

MSC 6208 - Scientific Methods

Units: 6

Research information and skills for graduate students covering scientific writing, design of experiments and sampling programs, and the use of the library and other resources.

MSC 6211 - Ecology of Marine Birds and Mammals

Units: 6

Community approach to ecology of marine birds and mammals using experimental and sampling methodology, examining the distribution, abundance, trophic ecology, and behaviors of birds and mammals in Elkhorn Slough and Monterey Bay.

MSC 6212 - Advanced Topics in Marine Vertebrates

Units: 6

MSC 6221 - Advanced Topics in Marine Invertebrates

Units: 6

Advanced considerations of the ecology, physiology, and phylogeny of the various invertebrate phyla emphasizing current literature and research. Topics and emphasis vary from term to term. **Repeatability:** May be repeated for credit with consent of instructor.

MSC 6231 - Biology of Seaweeds

Units: 6

Lecture-discussion on marine macroalgal biology with extensive reading of original literature. Ecologically oriented individual research projects involving laboratory culture and field experimentation.

MSC 6233 - Advanced Topics in Marine Ecology

Units: 1.5-6

Selected topics and current issues in marine ecology. The subjects vary depending on student demand and availability of instructors. **Repeatability:** May be repeated for credit with consent of instructor. (On demand)

MSC 6234 - Advanced Biological Oceanography

Units: 6

A continuation of biological oceanographic studies. Lectures and discussion of special topics such as human impact on the marine environment. Critical analyses of current literature. An individual research project involving the use of one or more available analytical tools is required.

MSC 6242 - Plate Tectonics

Units: 4.5

Historical background, modern theory and geophysical evidence of continental drift, sea floor spreading and plate tectonics. Examinations of the impact of the recent revolution in historical geology.

Prerequisites: *MSC 4141 or consent of instructor.*

MSC 6246 - Geology of the Monterey Bay Region

Units: 6

Geology, tectonic, and active, naturally occurring processes in the Monterey Bay region; geologic and tectonic history of central California, plate tectonic processes and representative stratigraphy and geomorphology of Monterey Bay region. **Prerequisites:** *Graduate standing and consent of instructor.*

MSC 6248 - Marine Benthic Habitat Techniques

Units: 6

Collection and interpretation of geophysical data used to characterize marine benthic habitats. Basic geophysical principles will be reviewed. Application of techniques to identify and characterize marine benthic habitats, including echosounders, multibeam bathymetry and backscatter, sidescan sonar, seismic profiling, and GIS. **Prerequisites:** *Graduate standing and consent of instructor.*

MSC 6251 - Marine Geochemistry

Units: 6

Geochemical processes in the oceans: thermodynamics of low temperature aqueous reactions, weathering, oxidation-reducing and biologically mediated reaction, processes occurring at the sea floor and air-sea interface. **Prerequisites:** *MSC 4143, quantitative analysis, one year of calculus, or consent of instructor.*

MSC 6261 - Ocean Circulation and Mixing

Units: 6

The mathematical description of the distribution of properties (density, dissolved oxygen, etc.) in the oceans relating to physical and biochemical processes. Theory of distribution of variables, geostrophic method. **Prerequisites:** *MSC 4142 and college physics strongly recommended; one year of calculus, or consent of instructor.*

MSC 6262 - Satellite Oceanography

Units: 6

Physical principles of remote sensing with application to the oceans, including satellite image processing methods. Labs involve use of PC and Unix workstation. **Prerequisites:** *GEOL 4142 and MSC 4144, or consent of instructor.* **Strongly Recommended:** MSC 6263.

MSC 6263 - Application of Computers in Oceanography

Units: 6

Discussion and technical programming with MATLAB for computation and visualization with applications in marine sciences; use of existing program libraries for data I/O and analysis. Semester project required. **Prerequisites:** *College math and consent of instructor.*

MSC 6271 - Population Biology

Units: 4.5

Principles involved in interaction among marine organisms which result in the alteration of population structures. Techniques for assessment and management of animal populations. **Credit Restrictions:** Not open to students with credit for BIOL 6170.

MSC 6272 - Subtidal Ecology

Units: 6

The ecology of nearshore rocky subtidal populations and communities with emphasis on kelp forests. Lectures and discussions of original literature. Field work with SCUBA including group projects on underwater research techniques and community analysis, and individual research on ecological questions chosen by the student. **Strongly Recommended:** knowledge of marine algae, invertebrates, and statistics.

MSC 6273 - Marine Environmental Studies of the Gulf of California

Units: 6

Analysis of Gulf of California marine environments; intensive field work; required scientific paper based on original research; topics vary. Taught with faculty and students from LaPaz, Mexico. Required two-week field trip in June.

MSC 6274 - Advanced Topics in Oceanography

Units: 1.5-6

The study of a selected area in oceanography. The subjects vary depending on student demand and availability of instructors. **Prerequisites:** *Consent of instructor.* **Repeatability:** May be repeated for credit with consent of instructor.

MSC 6280 - Scientific Writing

Units: 3

The techniques and strategies of scientific writing used for proposals, journal submissions, and abstracts of meetings. Students will develop their writing skills by preparing, editing, and rewriting manuscripts. **Prerequisites:** *Graduate standing and consent of instructor.*

MSC 6281 - Coastal Dynamics

Units: 6

Oceanographic dynamics of coastal environments, with an emphasis on eastern boundary current systems influenced by coastal upwelling. Focus on how physical and geological oceanography interact with each other and how both affect coastal ecosystem dynamics. **Prerequisites:** *Graduate standing and MSC 4141 or MSC 4142.*

MSC 6285 - Graduate Seminar in Marine Science

Units: 3

A seminar in marine science for presentation and discussion of advanced studies in special fields. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit, for a maximum of 6.

MSC 6900 - Independent Study

Units: 1.5-6

MSC 6910 - University Thesis

Units: 1.5-6

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See also, "University Thesis Writing Guide" www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course. Prerequisites: Graduate standing. Maximum of 6 units per student. Grading: CR/NC grading only.

Marketing

MKTG 3401 - Marketing Principles

Units: 4

Introduction to marketing principles, functions, and methods in creating and delivering value; evolution of the modern marketing system; market structure; internal and external variables in the design of marketing program including product, price, promotion, and distribution; social, legal, and ethical responsibilities of marketing. **Prerequisites:** ECON 2301.

MKTG 3410 - Advertising Management

Units: 4

Managing the firm's advertising function: defining the market; integrating advertising into the marketing mix; setting advertising goals and budgets; developing message strategy and media plan; evaluating advertising campaigns, monitoring and assessing advertising expenditures; research applications; societal evaluation and regulation. **Prerequisites:** MKTG 3401. **Co-requisites:** MKTG 3401.

MKTG 3415 - Personal Selling

Units: 4

Theory and practice of personal selling in individual and small group settings. Skills development in product knowledge, customer analysis, listening, prospecting techniques, sales presentation, closing methods, and the place of selling within business. Student Project. **Prerequisites:** MKTG 3401 or consent of instructor.

MKTG 3425 - Promotion

Units: 4

Management of marketing promotional functions including personal selling, sales promotions, advertising, and publicity/public relations. Comparison of promotions for profit/non-profit organizations, products/services, and consumer/industrial markets. Student project. **Prerequisites:** MKTG 3401.

MKTG 3440 - Products and Pricing

Units: 4

The process of both consumer and industrial product development, based on marketing intelligence, product introduction, strategy and pricing throughout product life cycle. Field observation and case discussion. **Prerequisites:** *MKTG 3401.*

MKTG 3445 - Marketing Research

Units: 4

Training in the process and techniques of marketing research. Topics include problem formulation, research design, development of research instrument, data collection and analysis, and report writing and presentation. Hands-on experience emphasized. **Prerequisites:** *MKTG 3401; STAT 2010 or STAT 1000; PC Software Proficiency completed.*

MKTG 3495 - Business Communication

Units: 4

Applications of logical and creative thinking, and oral and written communications in the administrative decision-making process in business organizations. Enrollment priority given to Business Administration and Economics majors, then Business Administration minors. **Prerequisites:** *Junior standing; either C- (CR) or better in ENGL 3000 or ENGL 3001 and a score of 7 on the first-tier portfolio, or score of 7 or better on the Writing Skills test, or satisfaction of the graduation writing assessment requirement (GWAR) at any CSU campus including the UWSR at Cal State East Bay. Credit unavailable through challenge.*

MKTG 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity.*
Grading: *CR/NC grading only.*

MKTG 3999 - Issues in Marketing and Entrepreneurship

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in marketing and entrepreneurship.

MKTG 4400 - Integrated Marketing Management

Units: 4

An integrative perspective of marketing management. Students acquire knowledge and skills in applying marketing mix variables in competitive decision making environments. Lectures, simulation, and/or cases used to emphasize integration of marketing mix variables. **Prerequisites:** *MKTG 3401; any one course from MKTG 3410, MKTG 3425, MKTG 3440, MKTG 3445, and MKTG 4417.*

MKTG 4412 - Media Planning

Units: 4

Media choice related to advertising and promotion strategies; media data sources, syndicated services. Researching media for a specific product, structuring optimum media mixes, developing/managing media budgets; using computers and commercial computer services in deriving media schedules. **Prerequisites:** *MKTG 3401*.

MKTG 4415 - Corporate Communications

Units: 4

Development of organizational image campaigns by identifying corporate culture, corporate image, intraorganizational goals. Determining media strategies, tactics, and tools for lobbying, trade organization relations, press agency, publicity, internal communications, and public opinion research included in the context of social responsibility. Student project. **Strongly Recommended:** *MKTG 3401; MGMT 3600; MGMT 3680*.

MKTG 4417 - Consumer Behavior

Units: 4

Survey of theoretical foundations of consumer decision-making; in-depth analysis of contemporary factors influencing consumer behavior, including social, cultural, and psychological dimensions; extensive outside readings and case applications; student project required. **Prerequisites:** *MKTG 3401*. **Strongly Recommended:** *PSYC 1000 (or one of PSYC 1001 or PSYC 1005)*.

MKTG 4435 - Services Marketing

Units: 4

Theory and practice of services marketing to enhance marketing knowledge. Development of skills in critical thinking, service quality analysis, and development of services through case analyses, student projects, and/or exercises. **Prerequisites:** *MKTG 3401*.

MKTG 4450 - Marketing Seminar

Units: 4

Selected topics emphasizing the integration of marketing literature with current business practices through seminar discussions and individual field investigations. **Prerequisites:** *MKTG 3401 and consent of instructor*.

MKTG 4470 - International Marketing

Units: 4

Marketing management problems and techniques in international business. **Prerequisites:** *MKTG 3401*. **Strongly Recommended:** *MGMT 4670; ECON 3107*.

MKTG 4585 - E-Commerce Marketing

Units: 4

E-Commerce marketing issues and problems. Understanding e-customers, characteristics of electronic marketplace, marketing implication of information technologies, and e-marketing strategies and tactics.

Prerequisites: *MKTG 3401 or consent of instructor.*

MKTG 4900 - Independent Study

Units: 1-4

Marketing: Graduate

MKTG 6120 - Managerial Communication

Units: 4

Managerial communication concepts, tools, and skills. Emphasis on building effective oral and written communication skills. Apply communication tools and knowledge: self-assessment; theory of human communication; interpersonal communication; organizational communication; and intercultural communication. (*Recommended as one of the first core MBA courses.*) **Prerequisites:** All CBE and University proficiencies, including the UWSR. **Grading:** *A-F grading only.*

MKTG 6215 - Marketing Management

Units: 4

Core marketing management issues in a changing business environment, conceptual knowledge, analytical tools, and problem solving skills applicable to marketing. Topics include environmental scanning; target marketing process; customer relationship management; managing product, price, distribution, and promotion; and marketing control. **Prerequisites:** All CBE and University proficiencies, including the UWSR; All MBA Fundamental Courses. **Grading:** *A-F grading only.*

MKTG 6401 - Marketing Research

Units: 4

Knowledge and training in process and techniques of acquiring, analyzing, interpreting and reporting information for decision-making. Topics include data collection instruments, sampling plan, statistical analysis and reporting of results. Hands-on learning is emphasized through assignments and/or project. **Prerequisites:** All Fundamental Courses and MKTG 6215.

MKTG 6410 - Buyer Behavior

Units: 4

Theories, concepts, methods, and empirical findings regarding buyers' decision-making processes and choice behavior from buyers, marketers, and public policy makers' perspectives. Lectures, discussion of research articles, case analysis, and research project emphasized. **Prerequisites:** All Fundamental Courses and MKTG 6215.

MKTG 6411 - Product Management

Units: 4

Knowledge and skills in the process of designing and marketing of new and existing products. Topics include product design, product positioning, market definition, segmentation, test marketing, and demand forecasting. Lectures, cases, and hands-on experience emphasized. **Prerequisites:** All Fundamental Courses and MKTG 6215.

MKTG 6412 - Pricing Management

Units: 4

Pricing strategies, tactics, methods, laws, treatment of costs, effect of sales promotion, consideration of competition and customers for pricing. Lectures, discussion of relevant articles, and analyses of cases and pricing problems emphasized.

MKTG 6413 - Integrated Marketing Communications

Units: 4

Students learn marketing communications and promotion and apply knowledge and skills to develop an integrated marketing communication plan. Students learn decision techniques for positioning a brand using appropriate mix of advertising, sales promotion, sales force, and public relations. **Prerequisites:** All Fundamental Courses and MKTG 6215.

MKTG 6414 - Distribution Management

Units: 4

Students learn about marketing channels and design and manage appropriate channels and logistics for a variety of products. Lecture, project, case studies, and/or a simulation may be used to assist students in understanding distribution models. **Prerequisites:** MKTG 3401 or 6005; MKTG 6401.

MKTG 6450 - Seminar in Selected Marketing Topics

Units: 4

Concepts, tools and techniques associated with a special topic in marketing such as consumer behavior, or application of marketing to a specific situation such as business-to-business marketing, international marketing, marketing through the Internet. **Prerequisites:** All Fundamental Courses and MKTG 6215.

MKTG 6470 - International Marketing

Units: 4

Using cases and a project, students learn how to respond to differences in the cultural, political, legal and economic environments in other countries in designing effective market-entry, segmentation, positioning, and marketing-mix strategies. Ethical issues confronting global marketers are also discussed. **Prerequisites:** All Fundamental Courses and MKTG 6215.

MKTG 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities within the quarter enrolled. **Repeatability:** May be repeated for credit, for a maximum of 8 units. No units may be counted toward any CBE graduate degree. **Grading:** *CR/NC grading only.*

MKTG 6900 - Independent Study

Units: 1-4

MKTG 6909 - Departmental Thesis

Units: 1-4

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a faculty committee at least one of whom must be a Cal State East Bay faculty member.

MKTG 6910 - University Thesis

Units: 1-5

Development and writing of a formal research paper for submission to the University in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See also "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course.

MKTG 6999 - Issues in Marketing

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in marketing. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Mathematics

MATH 1110 - The Nature of Mathematics

Units: 4

This course is designed to introduce the student to mathematics as an art and mathematics as a tool, emphasizing the place of mathematics in today's world. Will satisfy the general education requirement for non-majors. **Prerequisites:** *Satisfactory completion of Entry-Level Mathematics requirement. Must complete course with a grade of "C-" or better in order to earn General Education, Area B4, credit.* **Credit Restrictions:** Upper division mathematics and computer science majors will not receive credit for this course.

MATH 1130 - College Algebra

Units: 4

Functions and graphs: polynomials, rational functions, exponential and logarithmic functions. See note at beginning of course listings. **Prerequisites:** *Satisfactory completion of Entry-Level Mathematics requirement. Must complete course with a grade of "C-" or better in order to earn General Education, Area B4, credit.* **Credit Restrictions:** Upper division mathematics and computer science majors will not receive credit for this course.

MATH 1300 - Trigonometry and Analytic Geometry

Units: 4

Definitions, properties and graphs of the trigonometric functions. Applications. Analytic geometry of conic sections. A preparatory course for calculus. **Prerequisites:** *MATH 1130 or departmental permission. Must complete course with a grade of "C-" or better in order to earn General Education, Area B4, credit.*

MATH 1304 - Calculus I

Units: 4

Differential calculus. Limits and continuity. Exponential and logarithmic functions. Techniques and applications of differentiation. **Prerequisites:** *MATH 1300 or departmental permission. Must complete course with a grade of "C-" or better in order to earn General Education, Area B4, credit.*

MATH 1305 - Calculus II

Units: 4

Integral calculus. The indefinite integral, area, the Fundamental Theorem and techniques of integration. Applications to volume, arc length, physical and biological problems. **Prerequisites:** *MATH 1304.*

MATH 1810 - Mathematics for Business and Social Sciences

Units: 4

Functions and graphs; exponential and logarithmic functions; mathematics of accounting and finance; matrices and systems of equations; geometric approach to linear programming; introduction to differential and integral calculus with applications to business and social sciences. **Prerequisites:** *MATH 1130 or departmental permission. Must complete course with a grade of "C-" or better in order to earn General Education, Area B4, credit.*

MATH 2011 - Number Systems

Units: 4

Structure of number systems, place value, whole numbers, integers, fractions, decimals, real numbers. Standard and nonstandard algorithms, mental computation. Algebra as generalized arithmetic. Divisibility, prime and composite numbers, GCF, LCM. Ratio, proportion, percents. Intended for prospective elementary and junior high school teachers. **Prerequisites:** *Satisfactory completion of the Entry Level Mathematics (ELM) requirement.* **Credit Restrictions:** Not open to students with credit for MATH 4021. Mathematics and computer science majors will not receive credit for this course.

MATH 2101 - Elements of Linear Algebra

Units: 4

Vector spaces, linear transformations, matrices, systems of linear equations. Stress on 2 and 3 dimensions, including geometric and other applications. **Prerequisites:** *MATH 1305*.

MATH 2150 - Discrete Structures

Units: 4

Topics in discrete mathematics. Elementary logic, set theory, and relations; induction, enumeration techniques, recurrence relations, trees and graphs. Boolean algebra, algorithm analysis. **Prerequisites:** *MATH 1304*.

MATH 2304 - Calculus III

Units: 4

Infinite series, convergence of power series. Vectors in space. Partial derivatives, chain rule, directional derivative and gradient. Curves and surfaces. Maxima and minima. Multiple integrals. **Prerequisites:** *MATH 1305*.

MATH 2305 - Calculus IV

Units: 4

Definite integrals over plane and solid regions in various coordinate systems. Vector functions and their derivatives and integrals. Motion in space. Line and surface integrals. Green's theorem, Stokes' theorem, divergence theorem. **Prerequisites:** *MATH 2304*.

MATH 3000 - Introduction to Abstract Mathematics and Proofs

Units: 4

Introduction to methods and proof techniques in several branches of mathematics, with topics chosen from logic, set theory, abstract algebra, number theory, analysis, and graph theory. Provides a transition from lower division mathematics courses, which concentrate on computation, to upper division proof-oriented mathematics courses. **Prerequisites:** *MATH 2304*. **Co-requisites:** *MATH 2101*.

MATH 3100 - Linear Algebra

Units: 4

Abstract vector spaces, linear transformations, matrices and determinants. Dual spaces and inner product spaces. Eigenvalues and eigenvectors. **Prerequisites:** *MATH 2101* and either *MATH 2150* or *MATH 3000*. (*MATH 3000* is strongly encouraged for mathematics majors and may be taken concurrently with *MATH 3100*.)

MATH 3121 - Abstract Algebra I

Units: 4

Groups and Subgroups, permutation groups and factor groups. Homomorphisms and Isomorphisms. An introduction to Rings, Polynomial Rings, and Factorization. Selected topics as time permits. **Prerequisites:** MATH 2101 and either MATH 2150 or MATH 3000. (MATH 3000 is strongly encouraged for mathematics majors and may be taken concurrently with MATH 3121.)

MATH 3122 - Abstract Algebra II

Units: 4

Rings and fields: integral domains, ideals, quotient rings, polynomial rings, roots of polynomials, algebraic extensions and finite fields. Selected topics as time permits. **Prerequisites:** MATH 3121.

MATH 3151 - Combinatorics

Units: 4

Theory of counting, including partitions, Stirling numbers, generating functions. Applications of Burnside's lemma from multiple transitivity to the Polya-Redfield Theorem. Ferrers diagrams, symmetric functions, and majorization. **Prerequisites:** MATH 2101 and either MATH 2150 or MATH 3000.

MATH 3215 - Geometry I

Units: 4

A rigorous, axiomatic approach to neutral and Euclidean geometry from an advanced standpoint. An introduction to non-Euclidean Geometries. Topics in Euclidean geometry to include congruence, area, parallelism, similarity, properties of circles and triangles, constructions, analytic and transformational geometry. **Prerequisites:** MATH 2101 and either MATH 2150 or MATH 3000. (MATH 3000 is strongly encouraged for mathematics majors and may be taken concurrently with MATH 3215.)

MATH 3300 - Analysis I

Units: 4

Field properties of the real and complex numbers. Sequences of real numbers, Bolzano-Weierstrass theorem. Topology of \mathbb{R}^n , metric spaces, connected and compact sets. Limits, continuity, intermediate and extreme value theorems. Other topics as time permits. **Prerequisites:** MATH 2101 and either MATH 2150 or MATH 3000. (MATH 3000 is strongly encouraged for mathematics majors and may be taken concurrently with MATH 3300.)

MATH 3301 - Analysis II

Units: 4

Continuity, uniform continuity. Sequences and series of functions. Differentiation, chain rule, implicit and inverse function theorems. Introduction to Riemann Integration. **Prerequisites:** MATH 3300.

MATH 3331 - Differential Equations

Units: 4

Methods of solution and applications of first order differential equations. Linear n-th order equations with emphasis on equations of 2nd order. Other topics may include power series solutions, Laplace transforms, linear systems. **Prerequisites:** *MATH 2304*.

MATH 3361 - Ordinary Differential Equations

Units: 4

Series solution of linear differential equations with variable coefficients, two point boundary value problems, systems of differential equations, phase plane analysis. **Prerequisites:** *MATH 2101 and MATH 3331*.

MATH 3600 - Number Theory

Units: 4

Euclid's algorithm, prime numbers, congruences, theorems of Fermat and Euler, quadratic residues. **Prerequisites:** *MATH 2101 and either MATH 2150 or MATH 3000. (MATH 3000 is strongly encouraged for mathematics majors and may be taken concurrently with MATH 3600.)*

MATH 3750 - Numerical Analysis I

Units: 4

Basic numerical methods and analysis; practical solutions of problems from engineering, science, and mathematics. Computer representation of real numbers, errors, root finding, interpolation, numerical integration, ordinary differential equations. **Prerequisites:** *CS 1160, MATH 2101 and MATH 2304*. **Cross-listed:** *CS 3750*.

MATH 3841 - Linear Programming

Units: 4

Problems of maximizing or minimizing a linear function subject to linear constraints; typical applications involve planning ("programming") the allocation of limited resources to achieve an optimal result. Topics include problem formulation, solution procedures, duality theory, sensitivity analysis, special problems (e.g., transportation and assignment problems). **Prerequisites:** *MATH 2304 and competence in matrix algebra*.

MATH 3875 - Mathematical Physics

Units: 4

Mathematics theory and methods with applications to physics. In class physics laboratory explorations will utilize mathematical techniques to better understand physics phenomena. **Prerequisites:** *MATH 1305*. **Co-requisites:** *MATH 2304*. **Cross-listed:** *PHYS 3875*.

MATH 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-

campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity; completion of lower division Mathematics major requirements and upper division standing. A maximum of 2 units will be accepted toward the Mathematics major.* **Repeatability:** May be repeated for credit, for a maximum of 8 units. **Grading:** *CR/NC grading only.*

MATH 4012 - Geometry and Measurement

Units: 4

Properties of 2- and 3-dimensional figures including congruence, similarity, proportional reasoning, area, perimeter, volume, surface area. Informal constructive proofs of properties of angles, polygons, parallel lines and the Pythagorean theorem. Transformational geometry. Measurement systems, estimation, coordinate geometry. Intended for prospective elementary and junior high school teachers. **Prerequisites:** *MATH 2011.* **Credit Restrictions:** Not open to students with credit for MATH 4022. Mathematics and Computer Science majors will not receive credit for this course.

MATH 4013 - Statistics, Data Analysis, and Probability

Units: 4

Displaying and interpreting data via graphs, tables and charts. Descriptive statistics, including mean, median, mode and range. Basic Survey design, including possible sources of biases. Elementary discrete probability. Dependent and independent events. Intended for prospective elementary and junior high school teachers. **Prerequisites:** *MATH 2011 and satisfactory completion of the Entry Level Mathematics requirement.* **Credit Restrictions:** Not open to students with credit for MATH 4023. Mathematics and Computer Science majors will not receive credit for this course. **Cross-listed:** STAT 4013.

MATH 4014 - Algebra and Functions

Units: 4

Patterns and functional relationships. Linear and quadratic equations and inequalities. Interpretation of graphs, multiple representations of functions. Factoring and completing the square. Proportional reasoning. Systems of linear equations. Intended for prospective elementary and junior high school teachers. **Prerequisites:** *MATH 2011 and satisfactory completion of the Entry Level Mathematics requirement.* **Credit Restrictions:** Not open to students with credit for MATH 4024. Mathematics and Computer Science majors will not receive credit for this course.

MATH 4030 - Advanced Study of School Mathematics

Units: 4

Foundations of school mathematics from an advanced standpoint. An in depth study of middle and high school level algebra, geometry and number theory and its applications, theoretical foundations and extensions. Intended for prospective elementary and middle school teachers. **Prerequisites:** *MATH 2011 and MATH 1130 or consent of instructor.* **Credit Restrictions:** Mathematics and Computer Science majors will not receive credit for this course. **Grading:** *A-F grading only.*

MATH 4040 - History of Mathematics

Units: 4

The historical development of mathematical ideas and techniques. **Prerequisites:** *Calculus or consent of instructor.*

MATH 4100 - Mathematical Logic

Units: 4

The propositional calculus and its completeness. Boolean algebras. Functional calculi of various orders. Theorems of Gödel and Henkin. **Prerequisites:** *Senior standing in mathematics or consent of instructor.*

MATH 4121 - Advanced Algebra

Units: 4

Theory of groups, including factor groups, Jordan-Hölder Theorem, Sylow theorems. Mappings and homomorphisms. Introduction to rings and fields. Topics continued in MATH 6121. May not be applied towards the Mathematics, M.S. degree. **Prerequisites:** *MATH 3122. May not earn credit for MATH 6119.*

MATH 4151 - Graph Theory

Units: 4

Introduction to graph theory. Graphic sequences. Planar graphs and the theorems of Euler and Kuratowski. Bipartite graphs. Connectivity and spanning trees. Hamiltonian graphs. Matching, chromatic and characteristic polynomials. Cospectral graphs and the graph isomorphism problem. Algorithms. **Prerequisites:** *MATH 2101 and either MATH 2150 or MATH 3000.*

MATH 4215 - Topics in Geometry

Units: 4

Topics in geometry such as algebraic, differential, finite, or projective geometry, convexity, packing and tiling, polytopes, and isoperimetric problems. **Prerequisites:** *MATH 3215 or consent of instructor.*
Repeatability: May be repeated once for credit with consent of the chair, for a maximum of 8 units.

MATH 4235 - Introduction to Knot Theory

Units: 4

An introduction to the theory of knots and links. Topics covered include Reidemeister moves, knot invariants, including 3-colorings, the linking number, the Alexander polynomial, the Kauffman bracket and Jones polynomial. As time permits, some applications in biology and/or chemistry will be discussed. **Prerequisites:** *MATH 3121.*

MATH 4340 - Introduction to Complex Variables

Units: 4

Introduction to theory of functions of complex variables. May not be applied towards the Mathematics, M.S. degree. **Prerequisites:** *MATH 3300.*

MATH 4350 - Theory of Functions of a Real Variable

Units: 4

Pointwise and uniform convergence, Taylor series, Riemann integration, sets of measure zero, Lebesgue's theorem on the Riemann integral, the metric space of continuous functions, and selected topics. **Credit Restrictions:** May not be applied towards the Mathematics M.S. degree. Not open to students with credit for MATH 6349.

MATH 4360 - Introduction to Topology

Units: 4

Topological spaces, metric spaces, continuity, connectedness and compactness. **Prerequisites:** *MATH 3300*. **Credit Restrictions:** May not be applied towards the Mathematics M.S. degree. Not open to students with credit for MATH 6200.

MATH 4361 - Partial Differential Equations

Units: 4

Differential equations of physics: the wave equation, the heat equation, Laplace's equation; boundary-value problems. Elementary Sturm-Liouville theory, Fourier series, Fourier and Laplace transforms, Bessel functions, selected topics. **Prerequisites:** *MATH 3331*.

MATH 4365 - Dynamical Systems

Units: 4

Introduction to dynamical systems and applications. Variational calculus, Lagrangian dynamics, principle of critical action, Hamiltonian systems and symplectic mechanics, Hamilton-Jacobi equation, chaotic and nonlinear systems, fractals. **Prerequisites:** *MATH 3100, MATH 3300, MATH 3331, or consent of instructor*.

MATH 4750 - Numerical Analysis II

Units: 4

Continuation of MATH 3750. Numerical solution of linear systems, matrix norms, approximation of functions, algebraic eigenvalues. **Prerequisites:** *MATH 3750/CS 3750*.

MATH 4841 - Topics in Optimization

Units: 4

Sequel to MATH 3841. Topics to be drawn from linear and/or nonlinear programming. Linear programming topics may include integer programming, game theory, network programming; nonlinear programming topics include optimality conditions and solution procedures for unconstrained and constrained optimization problems. **Prerequisites:** *MATH 3841*. **Repeatability:** May be repeated once for credit with consent of the chair, for a maximum of 8 units.

MATH 4842 - Advanced Topics in Optimization

Units: 4

Topics selected from quasi-Newton methods for multi-variable unconstrained optimization; nonlinear least squares; quadratic programming; constrained optimization with nonlinear constraints; convex optimization. **Prerequisites:** *MATH 3750 and MATH 3841 or permission of instructor.* **Repeatability:** May be repeated once for credit, with consent of the Mathematics Graduate Studies Committee, for a maximum of 8 units.

MATH 4845 - Fuzzy Sets and Fuzzy Logic

Units: 4

(See CS 4845 for course description.)

MATH 4900 - Independent Study

Units: 1-5

Repeatability: *May be repeated for credit with consent of instructor, for a maximum of 12 units.*

MATH 4901 - Senior Seminar

Units: 4

Exploration of topics in mathematics. Topics selected from the literature to illustrate relationships among various areas of mathematics. Oral presentations and paper required. **Prerequisites:** *Senior standing in mathematics (completion of 32 units of mathematics courses) or permission of the instructor.*

Mathematics: Developmental

MATH 800 - Introduction to Algebra

Units: 4

Fractions, signed numbers, percentages, introduction to geometry, simplifying algebraic expressions, solving linear equations, straight lines. **Prerequisites:** *Appropriate ELM score (ranges available from the Testing Office or at <http://www.csueastbay.edu/ge/remedialinfo/scores.htm>).* **Credit Restrictions:** Not for credit toward baccalaureate degree. **Grading:** *A/B/C/NC grading only.*

MATH 805 - Beginning Algebra

Units: 4

Signed numbers, fractions, decimals, percentages, simplifying algebraic expressions, solving linear equations, straight lines, introduction to geometry. **Prerequisites:** *Appropriate ELM score (ranges available from the Testing Office or at <http://www20.csueastbay.edu/ge/remedial/score.html>).* **Credit Restrictions:** Not for credit towards baccalaureate degree. **Grading:** *ABC/NC grading only.*

MATH 806 - Algebra B

Units: 4

Prime factorization. Add/sub/mult/divide polynomials. Factoring polynomials. Add/sub/mult/divide rational expressions. Mixture and motion problems. Ratios and proportions. Work with equations of lines and inequalities. **Prerequisites:** *MATH 805*. **Credit Restrictions:** Not for credit towards baccalaureate degree. **Grading:** *ABC/NC grading only*.

MATH 807 - Algebra C

Units: 4

Operations with algebraic expressions, exponents and radicals; linear and quadratic equations; systems of equations and inequalities; linear and quadratic functions and their graphs; elementary conic sections; word problems. **Prerequisites:** *MATH 806*. **Credit Restrictions:** Not for credit towards baccalaureate degree. **Grading:** *ABC/NC grading only*.

MATH 900 - Elementary Algebra

Units: 4

A one quarter course in elementary algebra. On successful completion of this course, students should register for MATH 950. Completion of MATH 0900 does not satisfy the ELM requirement. Students must also pass MATH 950 before enrolling in a baccalaureate-level mathematics course. **Prerequisites:** *Grade of A/B/C in MATH 800 or appropriate ELM score (ranges available from the Testing Office or at <http://www.csueastbay.edu/ge/remedialinfo/scores.htm>)*. **Credit Restrictions:** Not for credit toward baccalaureate degree. **Grading:** *A/B/C/NC grading only*.

MATH 911 - Algebra Lab

Units: 2

Supplemental study, discussion, and practice in the theory, problems, and applications of elementary and intermediate algebra. **Co-requisites:** *Enrollment in MATH 900, or MATH 950*. **Credit Restrictions:** Not for credit toward baccalaureate degree. **Repeatability:** May be repeated once for credit (nonbaccalaureate), with permission of the Math/CS Department, for a maximum of 4 units. **Grading:** *A/B/C/NC grading only*.

MATH 950 - Intermediate Algebra

Units: 4

Operations with algebraic expressions, exponents and radicals; linear and quadratic equations; systems of equations and inequalities; linear and quadratic functions and their graphs; elementary conic sections; word problems. **Prerequisites:** *Grade of A/B/C in MATH 900; or an appropriate ELM score (ranges available from the Testing Office or at <http://www.csueastbay.edu/ge/remedialinfo/scores.htm>)*. **Credit Restrictions:** Not for credit toward baccalaureate degree. **Grading:** *A/B/C/NC grading only*.

Mathematics: Education: Graduate

MATH 6015 - Algebra for Teachers

Units: 4

Polynomials, groups, fields, and rings from an advanced standpoint as they relate to the high school algebra curriculum. Discussion of strategies to help secondary students develop their algebraic thinking skills. **Prerequisites:** *Permission of instructor.*

MATH 6025 - Geometry for Teachers

Units: 4

Rigorous development of a non-Euclidean geometry, such as spherical, projective, or hyperbolic geometry. Models and technology used where appropriate. Discussion of implementation strategies for teaching geometry and proof techniques for high school students. **Prerequisites:** *Permission of instructor.*

MATH 6035 - Analysis for Teachers

Units: 4

A rigorous development of calculus. The real line, functions, limits, continuity, differential and integral calculus. Technology used to develop an intuitive understanding of calculus which can be implemented in the high school classroom. **Prerequisites:** *Permission of instructor.*

MATH 6045 - Mathematics in the Sciences

Units: 4

Mathematics as found throughout the sciences. The mathematics used to model phenomena in biology, chemistry and/or physics. Students discover some of this mathematics through scientific experiments. **Prerequisites:** *Permission of instructor.*

MATH 6055 - Discrete Mathematics

Units: 4

Topics in discrete mathematics relating to the high school curriculum such as combinatorics, number theory, and graph theory. **Prerequisites:** *Permission of instructor.*

MATH 6065 - Connections in Mathematics

Units: 4

Topics which illustrate connections between different fields and applications of mathematics such as neural networks, tomography, coding theory, symmetry groups, optimization theory, and applications found in differential equations or complex analysis. **Prerequisites:** *Permission of instructor.*

MATH 6899 - Project

Units: 1-5

Development of an original product which is summarized in a written abstract. Both the project and the abstract are submitted to the department which specifies their formats. Supervision by a departmental

committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense may be required. **Prerequisites:** *Graduate status. Maximum of 5 units per student.*

MATH 6900 - Independent Study

Units: 1-4

Mathematics: Graduate

MATH 6005 - Teaching Mathematics at the University Level

Units: 1

Theory, methodology, and practical experience in the teaching of mathematics at the university level. Includes discussion of lecturing techniques, analysis of tests and supporting material, preparation and grading of examinations, and related topics. Required of departmental teaching associates. **Prerequisites:** *Graduate standing and permission of department.* **Repeatability:** May be repeated for credit, but only two units can be used toward the M.S. degree.

MATH 6100 - Applied Algebra

Units: 4

A survey course covering significant areas of applied algebra. Topics might include applied matrix theory, game theory, convexity and inequalities, and/or algebraic coding theory. **Prerequisites:** *MATH 3100 or equivalent.* **Repeatability:** May be repeated once for credit with consent of Mathematics Graduate Studies Committee, for a maximum of 8 units.

MATH 6119 - Advanced Algebra

Units: 4

Theory of groups, including factor groups, Jordan-Holder Theorem, Sylow theorems. Mappings and homomorphisms. Introduction to rings and fields. Students will do independent theoretical work. Topics continued in MATH 6121. **Prerequisites:** *MATH 3122.* **Credit Restrictions:** Not open to students with credit for MATH 4121.

MATH 6121 - Topics in Advanced Algebra I

Units: 4

Continuation of MATH 4121. Topics include ideals, commutative rings, modules; field extensions and Galois theory. **Prerequisites:** *MATH 4121.*

MATH 6125 - Introduction to Lie Algebras

Units: 4

An introduction to the theory of semisimple Lie algebras. Theorems of Lie, Engel, and Weyl; Cartan's

Criterion; the classification of root systems; and abstract theory of weights. **Prerequisites:** *MATH 3100 or consent of instructor.*

MATH 6151 - Advanced Topics in Graph Theory

Units: 4

Advanced course in graph theory. Connectivity, planarity, and graph coloring. Advanced topics which may include substructures in graphs and Ramsey Theory, Random Graphs, Spectral Graph Theory. **Prerequisites:** *MATH 3100 and graduate standing.* **Repeatability:** May be repeated once for credit with consent of instructor and when content varies, for a maximum of 8 units. **Grading:** *A-F grading only.*

MATH 6200 - Introduction to Topology

Units: 4

Topological spaces, metric spaces, continuity, connectedness and compactness. Independent theoretical work. Dual-listed with MATH 4360. **Prerequisites:** *MATH 3300.* **Credit Restrictions:** Not open to students with credit for MATH 4360. **Grading:** *A-F grading only.*

MATH 6201 - Topology

Units: 4

Continuation of MATH 4360/MATH 6200. Topics may include countability and separation axioms, Tychonoff theorem, metrization theorems, homotopy theory. **Prerequisites:** *MATH 4360/MATH 6200.*

MATH 6235 - Introduction to Knot Theory

Units: 4

Introduction to the theory of knots and links. Reidemeister moves, knot invariants, including 3-colorings, linking number, Alexander polynomial, Kauffman bracket and Jones polynomial. Applications in biology and/or chemistry will be discussed, time permitting. Additional work required for graduate level credit. **Prerequisites:** *MATH 3121.*

MATH 6251 - Symplectic Geometry

Units: 4

Introduction to Symplectic Geometry. Symplectic linear algebra, groups, Lie algebras, and manifolds. Darboux-Weinstein theorem, relation to optics and Hamiltonian dynamics, moment maps, and geometric quantization. **Prerequisites:** *MATH 3100 and MATH 3300, or consent of instructor.* **Grading:** *A-F grading only.*

MATH 6260 - Computation and Complexity

Units: 4

(See CS 6260 for course description.)

MATH 6331 - Topics in Differential Equations

Units: 4

Topics selected from the theory of ordinary and partial differential equations. **Prerequisites:** *MATH 3100, MATH 3331, MATH 3301, or instructor's permission.* **Repeatability:** May be repeated two times for credit with consent of Mathematics Graduate Studies Committee and when content varies, for a maximum of 12 units.

MATH 6339 - Introduction to Complex Variables

Units: 4

Introduction to theory of functions of complex variables. Advanced synthesis of theory and practice. **Prerequisites:** *MATH 3300.* **Credit Restrictions:** Not open to students with credit for MATH 4340.

MATH 6340 - Complex Analysis

Units: 4

Cauchy integral formula, Mittag-Leffler's theorem, Weierstrass' factorization theorem, normal families, Riemann mapping theorem, and selected topics. **Prerequisites:** *MATH 4340.*

MATH 6349 - Theory of Functions of a Real Variable

Units: 4

Pointwise and uniform convergence. Taylor series, Riemann integration, sets of measure zero, Lebesgue's theorem on the Riemann integral, the metric space of continuous functions, and selected topics. Students will do independent theoretical work. Dual-listed with MATH 4350. **Prerequisites:** *MATH 3300.* **Credit Restrictions:** Not open to students with credit for MATH 4350.

MATH 6350 - Real Analysis

Units: 4

Theory of Lebesgue measure and integration on the real line. Selected topics and applications. **Prerequisites:** *MATH 4350 or MATH 6349.*

MATH 6401 - Advanced Probability I

Units: 4

(See STAT 6401 for course description.)

MATH 6501 - Mathematical Statistics I

Units: 4

(See STAT 6501, STAT 6502 for course description.)

MATH 6502 - Mathematical Statistics II

Units: 4

(See STAT 6501, STAT 6502 for course description.)

MATH 6750 - Topics in Advanced Numerical Analysis

Units: 4

Topics selected from approximation theory; spline theory; numerical linear algebra; the algebraic eigenvalue problem; numerical solutions to non-linear systems of equations, partial differential equations, and boundary value problems. **Prerequisites:** *MATH 4750 and MATH 3301 or instructor's permission.* **Cross-listed:** CS 6750. **Repeatability:** May be repeated two times for credit with consent of Mathematics Graduate Studies Committee and when content varies, for a maximum of 12 units.

MATH 6840 - Advanced Topics in Linear Optimization

Units: 4

Topics selected from network algorithms, integer programming, game theory, and other areas related to linear programming. **Prerequisites:** *MATH 3841.* **Repeatability:** May be repeated once for credit with consent of Mathematics Graduate Studies Committee, for a maximum of 8 units. **Grading:** *A-F grading only.*

MATH 6842 - Advanced Topics in Optimization

Units: 4

Topics selected from quasi-Newton methods for multi-variable unconstrained optimization; nonlinear least squares; quadratic programming; constrained optimization with nonlinear constraints; convex optimization. **Prerequisites:** *MATH 3750 and MATH 3841, or permission of instructor.* **Repeatability:** May be repeated once for credit with consent of Mathematics Graduate Studies Committee, for a maximum of 8 units.

MATH 6865 - Mathematical Modeling

Units: 4

Discrete and continuous mathematical models. General introduction to the use of difference and differential equations, probability and statistics, and matrices for solving realistic problems. Computer simulation. Emphasis on effective written reports. Additional graduate applications module. **Prerequisites:** *MATH 2101 and MATH 2304.* **Credit Restrictions:** Not open to students with credit for MATH 3865. **Cross-listed:** STAT 6865.

MATH 6870 - Computer Simulation

Units: 4

(See CS 6870 for course description.)

MATH 6875 - Topics in Mathematical Physics

Units: 4

Advanced mathematics theory and methods with applications to physics. **Prerequisites:** *MATH 1305.* **Co-**

requisites: *MATH 2304*. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

MATH 6900 - Independent Study

Units: 1-4

MATH 6910 - University Thesis

Units: 1-6

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See also, "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course. Prerequisites: Graduate standing. Maximum of 6 units per student.

MATH 6935 - Mathematical Logic

Units: 4

Content of MATH 4100 with a Graduate Module. Propositional calculus and its completeness. Boolean algebras. Functional calculi of various orders. Theorems of Godel and Henkin. **Prerequisites:** *Graduate standing*. **Credit Restrictions:** Not open to students with credit for MATH 4100. **Grading:** *A-F grading only*.

Modern Languages and Literatures: Spanish-American Literature and Culture

MLL 3461 - Introduction to Spanish-American Literature: 1492 to 1900

Units: 4

Philosophical, religious, political, artistic, and literary elements examined in Latin American literature. Survey begins with the analysis of pre-Colombian texts and moves through the centuries; colonial literature, romanticism, realism, and modernism discussed. **Prerequisites:** *MLL 2403 or consent of instructor*.

MLL 3463 - Introduction to Spanish-American Literature: 1900 to the Present

Units: 4

Philosophical, religious, political, artistic, and literary elements examined in contemporary Latin American literature. Prose, poetry and drama of the 20th Century. Continuation of MLL 3461.

Prerequisites: *MLL 2403 or consent of instructor*.

MLL 3495 - Spanish-American Culture and Civilization

Units: 4

A study of Spanish American culture and civilization through its history, arts, and social institutions.

Prerequisites: *MLL 2403 or consent of instructor.*

MLL 4495 - A Single Movement, Country or Theme: Spanish American Literature

Units: 4

Single author, country, movement or theme in Spanish-American Literature. **Prerequisites:** *MLL 2403 or consent of instructor.* **Repeatability:** May be repeated three times for credit when content varies, for a maximum of 16 units.

Modern Languages and Literatures

MLL 1005 - Viewing Diversity

Units: 4

Provides understanding of the interrelationship of the world community and concentration on the question of identity in the context of hybrid cultures, with specific emphasis on colonialism and post-colonialism in the Francophone world and Latin America.

MLL 1831 - Introduction to Asian Thought

Units: 4

The thought of China and Japan, past and present, as expressed in literature. (In English)

MLL 3001 - World Languages in an International Context

Units: 4

On campus and international travel experience in a selected language and culture; language may vary annually. Schedule will specify which language is eligible for enrollment. **Prerequisites:** *Advisor approval; two years of study in the selected language or consent of instructor.* **Repeatability:** May be repeated once for credit, for a maximum of 8 units to be used toward the certificate.

MLL 3119 - French Literature in English Translation

Units: 4

An interdisciplinary study of major authors and movements in French literature, emphasizing literary, philosophical, historical and cultural backgrounds. **Prerequisites:** *Junior standing; either C- (CR) or better in ENGL 3000 or ENGL 3001, or score of 7 or better on the Writing Skills Test, or satisfaction of the graduation writing assessment requirement (GWAR) at any CSU campus including the UWSR at the Hayward Hills campus.*

Repeatability: May be repeated once for credit when content varies, for a maximum of 8 units.

MLL 3240 - German Film: from Metropolis to Present German Cinema (in English)

Units: 4

(See description under German courses.)

MLL 3612 - Modern Chinese Short Stories (in English)

Units: 4

(See description under Chinese courses.)

MLL 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity.*

Repeatability: May be repeated for credit, for a maximum of 8 units. A maximum of 4 units credit will be accepted toward the majors and minors offered by Modern Languages. **Grading:** *CR/NC grading only.*

MLL 3938 - Italian American Women Through Literature (in English)

Units: 4

(See description under Italian courses.)

MLL 3999 - Issues in Modern Languages and Literatures

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in modern languages and literatures. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

MLL 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

MLL 5900 - Independent Study

Units: 1-4

MLL 6900 - Independent Study

Units: 1-4

Modern Languages and Literatures: Chinese

MLL 1601 - Elementary Mandarin Chinese I

Units: 4

Introduction to the speaking, understanding, reading, and writing Mandarin Chinese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

MLL 1602 - Elementary Mandarin Chinese II

Units: 4

Introduction to the speaking, understanding, reading, and writing Mandarin Chinese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

Prerequisites: *MLL 1601 or consent of instructor.*

MLL 1603 - Elementary Mandarin Chinese III

Units: 4

Introduction to the speaking, understanding, reading, and writing Mandarin Chinese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

Prerequisites: *MLL 1602 or consent of instructor.*

MLL 1611 - Intensive Elementary Chinese

Units: 4

Designed for students with conversational background in Mandarin Chinese, Cantonese, Taiwanese or other Chinese dialects that require instruction in the Pinyin romanization system, in writing Chinese characters, and synthesizing Chinese grammar. **Credit Restrictions:** Not open to students who are currently enrolled in, or have credit for MLL 1601-MLL 1602-MLL 1603.

MLL 2601 - Intermediate Mandarin Chinese I

Units: 4

A continuation of MLL 1603 with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Chinese culture. **Prerequisites:** *Consent of instructor.*

MLL 2602 - Intermediate Mandarin Chinese II

Units: 4

A continuation of MLL 1603 with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Chinese culture. **Prerequisites:** *MLL 2601 or consent of instructor.*

MLL 2603 - Intermediate Mandarin Chinese III

Units: 4

A continuation of MLL 1603 with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Chinese culture. **Prerequisites:** *MLL 2602 or consent of instructor.*

MLL 3601 - Advanced Reading, Composition and Translation

Units: 4

Advanced development of reading, writing, and translation skills through reading news about China, online or in print. Discussion of grammar and syntax in text and related topical social issues.

Prerequisites: *MLL 2603 or consent of instructor.*

MLL 3602 - Modern Chinese Literature, Linguistics and Culture

Units: 4

Survey of the masterpieces of modern vernacular Chinese literature of the post-1919 era. Focus on the readings of prose, fiction and verse in vernacular styles; discussion of philological, linguistic and cultural issues. **Prerequisites:** *MLL 2603 or consent of instructor.*

MLL 3603 - Classical Chinese Literature, Rhetoric and Culture

Units: 4

Survey of the masterpieces of classical Chinese literature of the pre-modern era. Focus on the readings of literary classical verse and prose; discussion of Chinese philosophy, metaphor, rhetoric and history.

Prerequisites: *MLL 2603 or consent of instructor.*

MLL 3611 - New Chinese Cinema

Units: 4

An interdisciplinary study of new Chinese cinema filmmakers and cultural movements of greater China (including mainland China, Taiwan, Hong Kong) since the emergence of new cinematic movements of the 80's to the present.

MLL 3612 - Modern Chinese Short Stories

Units: 4

Short stories and feature films about Modern China from ante-Republic era to present. Stories by prominent writers portray controversial images of Chinese women, either as wilting flowers or powerful dragon-ladies. Cultural and gender issues observed from various perspectives. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

Modern Languages and Literatures: Dari

MLL 1561 - Elementary Dari I

Units: 4

Introduction to speaking, understanding, reading, and writing Dari, one of two official languages of Afghanistan. Dari is the Afghan variety of the Persian Language, Farsi.

MLL 1562 - Elementary Dari II

Units: 4

Introduction to speaking, understanding, reading, and writing Dari, one of two official languages of Afghanistan. Dari is the Afghan variety of the Persian Language, Farsi. **Prerequisites:** *MLL 1561 or consent of instructor.*

MLL 1563 - Elementary Dari III

Units: 4

Introduction to speaking, understanding, reading, and writing Dari, one of two official languages of Afghanistan. Dari is the Afghan variety of the Persian Language, Farsi. **Prerequisites:** *MLL 1562 or consent of instructor.*

MLL 2561 - Intermediate Dari I

Units: 4

A continuation of MLL 1563, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Afghan culture. **Prerequisites:** *Consent of instructor.*

MLL 2562 - Intermediate Dari II

Units: 4

A continuation of MLL 1563, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Afghan culture. **Prerequisites:** *MLL 2561 or consent of instructor.*

MLL 2563 - Intermediate Dari III

Units: 4

A continuation of MLL 1563, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Afghan culture. **Prerequisites:** *MLL 2562 or consent of instructor.*

Modern Languages and Literatures: Filipino

MLL 1651 - Elementary Filipino I

Units: 4

Introduction to speaking, reading, and writing and understanding Filipino. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

MLL 1652 - Elementary Filipino II

Units: 4

Introduction to speaking, reading, and writing and understanding Filipino. A communicative approach to

the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1651 or consent of instructor.*

MLL 1653 - Elementary Filipino III

Units: 4

Introduction to speaking, reading, and writing and understanding Filipino. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1652 or consent of instructor.*

MLL 2652 - Intermediate Filipino II

Units: 4

A continuation of MLL 1653 with increased emphasis on the structure of the language, on vocabulary building, on conversation, and on the appreciation of Filipino culture; **Prerequisites:** *Consent of instructor.*

MLL 2653 - Intermediate Filipino III

Units: 4

A continuation of MLL 1653 with increased emphasis on the structure of the language, on vocabulary building, on conversation, and on the appreciation of Filipino culture; **Prerequisites:** *MLL 2652 or consent of instructor.*

Modern Languages and Literatures: French

MLL 1101 - Elementary French I

Units: 4

Introduction to speaking, understanding, reading, and writing French. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

MLL 1102 - Elementary French II

Units: 4

Introduction to speaking, understanding, reading, and writing French. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1101 or consent of instructor.*

MLL 1103 - Elementary French III

Units: 4

Introduction to speaking, understanding, reading, and writing French. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1102 or consent of instructor.*

MLL 2101 - Intermediate French I

Units: 4

A continuation of MLL 1103, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of the cultures of the French-speaking world.

Prerequisites: *Instructor consent.*

MLL 2102 - Intermediate French II

Units: 4

A continuation of MLL 1103, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of the cultures of the French-speaking world.

Prerequisites: *MLL 2101 or consent of instructor.*

MLL 2103 - Intermediate French III

Units: 4

A continuation of MLL 1103, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of the cultures of the French-speaking world.

Prerequisites: *MLL 2102 or consent of instructor.*

MLL 2110 - French Conversation

Units: 4

Emphasis on the spoken language studied through texts. Strongly recommended for majors. **Prerequisites:** *MLL 2103 or consent of instructor.*

MLL 3101 - Cinema for French Composition

Units: 4

Use of French and Francophone films as a basis for classroom discussion and for instruction in language proficiencies in listening, speaking, reading, and writing in various contexts and situations.

French/Francophone life, language and culture through the writing of essays.

MLL 3102 - Cinema for Advanced French Composition

Units: 4

Use of French and Francophone films as a basis for classroom discussion and for instruction in language proficiencies in listening, speaking, reading, and writing in various contexts and situations. Writing of essays at an advanced level.

MLL 3130 - Francophone Culture and Civilization through Cinema

Units: 4

A study of French culture through French and Francophone films illustrating artistic, political, social, and philosophical schools, to offer a better understanding of a variety of cultures from Francophone countries

around the world and analysis of cultural differences. **Prerequisites:** *MLL 2103 or consent of instructor.*
Repeatability: May be repeated once for credit when content varies, for a maximum of 8 units.

MLL 4100 - French Literary Themes and Figures

Units: 4

A study of selected themes and figures in French literature emphasizing an author, genre, or movement.

Prerequisites: *Consent of instructor.* **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

MLL 4110 - Francophone Rap/Hip-Hop

Units: 4

Examination of the success of rap and hip hop as outlets to express the social concerns of the various ethnicities of the Francophone world. Concentration on socio-cultural and literary perspectives.

Repeatability: May be repeated for credit when content varies. May be repeated once for credit when content varies, for a maximum of 8 units.

Modern Languages and Literatures: German

MLL 1201 - Elementary German I

Units: 4

Introduction to speaking, understanding, reading, and writing German. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

MLL 1202 - Elementary German II

Units: 4

Introduction to speaking, understanding, reading, and writing German. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1201 or consent of instructor.*

MLL 1203 - Elementary German III

Units: 4

Introduction to speaking, understanding, reading, and writing German. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1202 or consent of instructor.*

MLL 3240 - German Film: from Metropolis to Present German Cinema

Units: 4

Representative films from German cinema illustrating the artistic use of film during Expressionism, its

propagandistic use during the Third Reich, recent films as fictional representation of the quest for German identity. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

Modern Languages and Literatures: Italian

MLL 1301 - Italian Culture and Language I

Units: 4

Multimedia approach to speaking, understanding, reading, and writing Italian within the context of Italian culture throughout history.

MLL 1302 - Italian Culture and Language II

Units: 4

Multimedia approach to speaking, understanding, reading, and writing Italian within the context of Italian culture throughout history. **Prerequisites:** *MLL 1301 or consent of instructor.*

MLL 1303 - Italian Culture and Language III

Units: 4

Multimedia approach to speaking, understanding, reading, and writing Italian within the context of Italian culture throughout history. **Prerequisites:** *MLL 1302 or consent of instructor.*

Modern Languages and Literatures: Japanese

MLL 1801 - Elementary Japanese I

Units: 4

Introduction to speaking, understanding, reading, and writing Japanese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

MLL 1802 - Elementary Japanese II

Units: 4

Introduction to speaking, understanding, reading, and writing Japanese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. *Note: This course is prerequisite to MLL 1803.* **Prerequisites:** *MLL 1801, or consent of instructor.*

MLL 1803 - Elementary Japanese III

Units: 4

Introduction to speaking, understanding, reading, and writing Japanese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1801, MLL 1802, or consent of instructor.*

MLL 2801 - Intermediate Japanese I

Units: 4

A continuation of MLL 1803, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Japanese culture. **Prerequisites:** Consent of instructor.

MLL 2802 - Intermediate Japanese II

Units: 4

A continuation of MLL 1803, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Japanese culture. **Prerequisites:** *MLL 2801 or consent of instructor.*

MLL 2803 - Intermediate Japanese III

Units: 4

A continuation of MLL 1803, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Japanese culture. **Prerequisites:** *MLL 2802 or consent of instructor.*

MLL 3812 - Modern Japanese Short Stories in English Translation

Units: 4

Short stories in English of Modern Japan from 1868 Meiji Restoration to present. Prominent writers portray controversial images of Japan; imperialist, war defeated yet transformed into economic superpower; 'lost decade' while assessing bubble burst; and current trans-reality generation. Satisfies GE Area: C4. **Repeatability:** *Repeatable for a maximum of 12 units.*

MLL 3831 - Experiencing Japanese Culture

Units: 4

Interdisciplinary study of Japanese culture, literature, and philosophy as manifested in classical and modern fiction, cinema and animation. Translated readings focus on the social realities of Japan. Hands-on experience of Japanese culture includes calligraphy, origami, and tea ceremony.

Modern Languages and Literatures: Pashto

MLL 1551 - Elementary Pashto I

Units: 4

Introduction to speaking, understanding, reading, and writing Pashto, one of two official languages of Afghanistan.

MLL 1552 - Elementary Pashto II

Units: 4

Introduction to speaking, understanding, reading, and writing Pashto, one of two official languages of Afghanistan. **Prerequisites:** *MLL 1551 or consent of instructor.*

MLL 1553 - Elementary Pashto III

Units: 4

Introduction to speaking, understanding, reading, and writing Pashto, one of two official languages of Afghanistan. **Prerequisites:** *MLL 1552 or consent of instructor.*

MLL 2551 - Intermediate Pashto I

Units: 4

A continuation of MLL 1563, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Afghan culture. **Prerequisites:** *Consent of instructor.*

MLL 2552 - Intermediate Pashto II

Units: 4

A continuation of MLL 1563, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Afghan culture. **Prerequisites:** *MLL 2551 or consent of instructor.*

MLL 2553 - Intermediate Pashto III

Units: 4

A continuation of MLL 1563, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Afghan culture. **Prerequisites:** *MLL 2552 or consent of instructor.*

Modern Languages and Literatures: Persian

MLL 1951 - Elementary Persian I

Units: 4

Introduction to speaking, understanding, reading and writing Persian (Farsi). A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture, history, religion and geography of the Persian-speaking world.

MLL 1952 - Elementary Persian II

Units: 4

Introduction to speaking, understanding, reading and writing Persian (Farsi). A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture, history, religion and

geography of the Persian-speaking world. *Note: This course is prerequisite to MLL 1953. Prerequisites: MLL 1951 or consent of instructor.*

MLL 1953 - Elementary Persian III

Units: 4

Introduction to speaking, understanding, reading and writing Persian (Farsi). A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture, history, religion and geography of the Persian-speaking world. **Prerequisites:** *MLL 1951, MLL 1952, or consent of instructor.*

MLL 2951 - Intermediate Persian I

Units: 4

An approach to speaking, understanding, reading and writing Persian (Farsi) at the intermediate level. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture, history, religion and geography of the Persian-speaking world. **Prerequisites:** *Consent of instructor.*

MLL 2952 - Intermediate Persian II

Units: 4

An approach to speaking, understanding, reading and writing Persian (Farsi) at the intermediate level. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture, history, religion and geography of the Persian-speaking world. **Prerequisites:** *MLL 2951 or consent of instructor.*

MLL 2953 - Intermediate Persian III

Units: 4

An approach to speaking, understanding, reading and writing Persian (Farsi) at the intermediate level. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture, history, religion and geography of the Persian-speaking world. **Prerequisites:** *MLL 2952 or consent of instructor.*

Modern Languages and Literatures: Portuguese

MLL 1851 - Elementary Portuguese I

Units: 4

Introduction to speaking, understanding, reading, and writing Portuguese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

MLL 1852 - Elementary Portuguese II

Units: 4

Introduction to speaking, understanding, reading, and writing Portuguese. A communicative approach to

the acquisition of the language with emphasis on the appreciation of the culture. *Note: This course is prerequisite to MLL 1853. Prerequisites: MLL 1851 or consent of instructor.*

MLL 1853 - Elementary Portuguese III

Units: 4

Introduction to speaking, understanding, reading, and writing Portuguese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1851, MLL 1852, or consent of instructor.*

MLL 2851 - Intermediate Portuguese I

Units: 4

A continuation of MLL 1853, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of the cultures of the Portuguese-speaking world. **Prerequisites:** *Consent of instructor.*

MLL 2852 - Intermediate Portuguese II

Units: 4

A continuation of MLL 1853, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of the cultures of the Portuguese-speaking world. **Prerequisites:** *MLL 2851 or consent of instructor.*

MLL 2853 - Intermediate Portuguese III

Units: 4

A continuation of MLL 1853, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of the cultures of the Portuguese-speaking world. **Prerequisites:** *MLL 2852 or consent of instructor.*

MLL 3851 - Portuguese Grammar and Composition

Units: 4

Advanced grammar and structure applied to composition in the language. **Prerequisites:** *MLL 2853 or consent of instructor.*

MLL 3861 - Topics in Portuguese Literature

Units: 4

A variable subject course dealing with a particular aspect of Portuguese literature. **Prerequisites:** *MLL 2853 or consent of instructor.* **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

MLL 3871 - Topics in Brazilian Literature

Units: 4

A variable subject course dealing with a particular aspect of Brazilian literature. **Prerequisites:** *MLL 2853 or consent of instructor.* **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

Modern Languages and Literatures: Russian

MLL 1501 - Elementary Russian I

Units: 4

Introduction to speaking, understanding, reading, and writing Russian. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

MLL 1502 - Elementary Russian II

Units: 4

Introduction to speaking, understanding, reading, and writing Russian. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1501 or consent of instructor.*

MLL 1503 - Elementary Russian III

Units: 4

Introduction to speaking, understanding, reading, and writing Russian. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1502 or consent of instructor.*

MLL 2501 - Intermediate Russian I

Units: 4

A continuation of MLL 1303, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Russian culture. **Prerequisites:** *Consent of instructor.*

MLL 2502 - Intermediate Russian II

Units: 4

A continuation of MLL 1303, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Russian culture. **Prerequisites:** *MLL 2501 or consent of instructor.*

MLL 2503 - Intermediate Russian III

Units: 4

A continuation of MLL 1303, with increased emphasis on the structure of the language, on vocabulary

building and conversation, and on the appreciation of Russian culture. **Prerequisites:** *MLL 2502 or consent of instructor.*

MLL 3587 - Topics in Russian Literature and Culture in English

Units: 4

An interdisciplinary course with variable subject matter which may deal with general surveys of Russian Literature and culture, comparative readings in Russian and Western European literatures, and monographic studies on various Russian authors. Fulfills the University Writing Skills requirement for students who began work on the present degree before Fall quarter, 1985. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

Modern Languages and Literatures: Sign Language

MLL 1901 - Elementary Sign Language I

Units: 4

A basic sequence in American Sign Language with emphasis on receptive and expressive skills. Includes intensive practice, individual evaluation, and introduction to Deaf culture.

MLL 1902 - Elementary Sign Language II

Units: 4

A basic sequence in American Sign Language with emphasis on receptive and expressive skills. Includes intensive practice, individual evaluation, and introduction to Deaf culture. *Note: This course is prerequisite to MLL 1903.* **Prerequisites:** *MLL 1901, or consent of instructor.*

MLL 1903 - Elementary Sign Language III

Units: 4

A basic sequence in American Sign Language with emphasis on receptive and expressive skills. Includes intensive practice, individual evaluation, and introduction to Deaf culture. **Prerequisites:** *MLL 1901, MLL 1902, or consent of instructor.*

MLL 2901 - Intermediate Sign Language I

Units: 4

A continuation of MLL 1903, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Deaf culture. **Prerequisites:** *Consent of instructor.*

MLL 2902 - Intermediate Sign Language II

Units: 4

A continuation of MLL 1903, with increased emphasis on the structure of the language, on vocabulary

building and conversation, and on the appreciation of Deaf culture. **Prerequisites:** *MLL 2901 or consent of instructor.*

MLL 2903 - Intermediate Sign Language III

Units: 4

A continuation of MLL 1903, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of Deaf culture. **Prerequisites:** *MLL 2902 or consent of instructor.*

MLL 3902 - Deaf Culture

Units: 4

Analysis of factors that define the deaf community/culture. Compares and contrasts deaf culture with other minority groups. Readings about the deaf in the arts, sciences and humanities. **Prerequisites:** *MLL 2903 or consent of instructor.*

MLL 3903 - Topics in American Sign Language

Units: 4

Selected topics related to American Sign Language (ASL). Analysis of the structure of ASL. Conversation strategies in ASL. Cross-cultural interactions between the deaf and the hearing. Some theoretical bases of language acquisition of deaf children. **Prerequisites:** *MLL 2903 or consent of instructor.*

MLL 3904 - Sign Language: Field Work

Units: 4

Application in the community: state school, special classes in public schools, agencies serving the deaf. Comparison of variations in Sign Language due to ethnic, racial, educational, regional, and age factors. **Prerequisites:** *MLL 2903 or consent of instructor.*

Modern Languages and Literatures: Spanish

MLL 1401 - Elementary Spanish I

Units: 4

Introduction to speaking, understanding, reading, and writing Spanish. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

MLL 1402 - Elementary Spanish II

Units: 4

Introduction to speaking, understanding, reading, and writing Spanish. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1401 or consent of instructor.*

MLL 1403 - Elementary Spanish III

Units: 4

Introduction to speaking, understanding, reading, and writing Spanish. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture. **Prerequisites:** *MLL 1402 or consent of instructor.*

MLL 2401 - Intermediate Spanish I

Units: 4

A continuation of MLL 1403, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of the cultures of the Spanish-speaking world.

Prerequisites: *Instructor consent.*

MLL 2402 - Intermediate Spanish II

Units: 4

A continuation of MLL 1403, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of the cultures of the Spanish-speaking world.

Prerequisites: *MLL 2401 or consent of instructor.*

MLL 2403 - Intermediate Spanish III

Units: 4

A continuation of MLL 1403, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of the cultures of the Spanish-speaking world.

Prerequisites: *MLL 2401, MLL 2402, or consent of instructor.*

MLL 2405 - Intermediate Spanish for Bilingual Speakers II

Units: 4

Intensive three-course, intermediate level series for heritage or bilingual speakers of Spanish. Emphasis is grammar, writing, and reading. Courses prepare students for upper division classes in literature and culture in the Spanish major and must be taken in sequence. **Prerequisites:** *Instructor's approval.*

MLL 2406 - Intermediate Spanish for Bilingual Speakers III

Units: 4

Intensive three-course, intermediate level series for heritage or bilingual speakers of Spanish. Emphasis is grammar, writing, and reading. Courses prepare students for upper division classes in literature and culture in the Spanish major and must be taken in sequence. **Prerequisites:** *Instructor's approval.*

MLL 2407 - Spanish for Health Care Professions I

Units: 4

Intermediate-level Spanish language for students and practicing health professionals serving the Latino

community. Spanish language skills while promoting cultural awareness in the context of the health professions serving medical needs of the Latino population. **Strongly Recommended:** *First year of Spanish or comparable bilingual ability.*

MLL 2408 - Spanish for Health Care Professions II

Units: 4

Intermediate-level Spanish language for students and practicing health professionals serving the Latino community. Spanish language skills while promoting cultural awareness in the context of the health professions serving medical needs of the Latino population. **Strongly Recommended:** *First year of Spanish or comparable bilingual ability.*

MLL 2409 - Spanish for Health Care Professions III

Units: 4

Intermediate-level Spanish language for students and practicing health professionals serving the Latino community. Spanish language skills while promoting cultural awareness in the context of the health professions serving medical needs of the Latino population. **Strongly Recommended:** *First year of Spanish or comparable bilingual ability.*

MLL 2410 - Spanish Conversation

Units: 4

A practical application of Spanish to present-day experiences. Spanish sounds and intonation; vocabulary building. **Prerequisites:** *MLL 2403 or consent of instructor.*

MLL 3400 - Introduction to Literary Analysis

Units: 4

An introduction to literary analysis; the recognition of the terminology, genres, and rhetorical figures as well as a discussion of movements and literary styles. May be taken concurrently with MLL 2403. **Prerequisites:** *MLL 2402.*

MLL 3401 - Advanced Spanish Composition and Syntax, I

Units: 4

Written Spanish and formal grammar applied to advanced composition in the language. **Prerequisites:** *MLL 2403 or consent of instructor.*

MLL 3402 - Advanced Spanish Composition and Syntax, II

Units: 4

Continuation of MLL 3401. **Prerequisites:** *MLL 3401 or consent of instructor.*

MLL 3403 - Advanced Spanish Composition and Syntax, III

Units: 4

Selected authors with special attention to style. **Prerequisites:** *MLL 3402 or consent of instructor.*

MLL 3404 - Spanish Terminology and Translation

Units: 4

Spanish for business, law, medicine, and teaching. Emphasis on specialized vocabulary, translation, and interpreting. **Prerequisites:** *MLL 2403 or consent of instructor.* **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

MLL 3405 - Advanced Conversation for Community Needs

Units: 4

Written and conversational Spanish with emphasis on fluency in a specific professional area: Business, Medicine, Law, Teaching. **Prerequisites:** *MLL 2403 or consent of instructor.* **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

MLL 3406 - Practical Spanish: Community Service

Units: 6

Students will be assisting at the University and/or in the community as tutors, translators, and teaching aides. **Prerequisites:** *MLL 2403 or consent of instructor.* **Repeatability:** May be repeated once for credit when content varies (for a maximum of 12 units), with a maximum of 6 units toward the certificate.

MLL 3409 - Advanced Spanish Conversation for Health Professions

Units: 4

Advanced-level Spanish for students and practicing health professionals: grammar, anatomic and physiological vocabulary, conversations for Administrative Personnel, patient instructions and readings, promoting cultural awareness in the context of the health professions serving medical needs of the Latino population. **Strongly Recommended:** *Second year of Spanish (preferably with an orientation toward the Health Professions) or comparable bilingual ability.*

MLL 3410 - Advanced Spanish Conversation

Units: 4

A practical application of Spanish to present-day experiences. Designed to develop advanced oral communication skills. Emphasis on increasing vocabulary, accuracy and grammatical control. **Prerequisites:** *MLL 2403 or consent of instructor.*

MLL 3411 - Introduction to Spanish Linguistics

Units: 4

An introduction to the principles of linguistic analysis with emphasis upon examples taken from Spanish. A brief historical survey of the development of the Spanish language. **Prerequisites:** *MLL 2403 or consent of instructor.*

MLL 3412 - Spanish Phonetics

Units: 4

The fundamentals of Spanish pronunciation and intonation through the phonetic structure of the language. Attention given to each student's difficulties. Individual laboratory work. **Prerequisites:** *MLL 3411 or consent of instructor.*

MLL 3420 - Advanced Spanish Conversation for Community Engagement

Units: 4

Develop conversational and written Spanish skills working with the local community. Community engagement in Spanish may include projects approved by the faculty supervisor, teaching aides in high schools, or interpreting and translating for nonprofit agencies. **Prerequisites:** *MLL 2403, or consent of instructor.* **Strongly Recommended:** *Intermediate Spanish language skills.* **Grading:** A-F grading only.

Modern Languages and Literatures: Spanish Peninsular Literature and Culture

MLL 3418 - Spanish Culture and Civilization

Units: 4

A study of Spanish culture through literary examples, illustrating Spain's artistic, political, social movements and philosophical ideas. **Prerequisites:** *MLL 2403 or consent of instructor.*

MLL 4455 - Studies in the Golden Age of Spain

Units: 4

Specific author, movement, genre or theme of the 16th and 17th Centuries. **Prerequisites:** *MLL 2403 or consent of instructor.* **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

MLL 4457 - Survey Spanish Literature I: Medieval and Golden Age

Units: 4

Survey of Spanish literature from the Middle Ages to 1700. Socio-political, aesthetic, philosophical and literary ideas studied through readings of major works from the Medieval, Renaissance, and Baroque periods. **Prerequisites:** *MLL 2403 or consent of instructor.*

MLL 4458 - Survey Spanish Literature II: 18th Century to Present

Units: 4

Survey of Spanish Literature from the 18th Century to the present. Socio-political, aesthetic, philosophical and literary ideas studied through selections of major works; neo-classicism, romanticism, naturalism, the Generation of '98, and current authors. **Prerequisites:** *MLL 2403 or consent of instructor.*

MLL 4459 - Studies in Spanish Literature of the Modern Age

Units: 4

Intensive study of selected authors, genres, or literary movements from 18th Century to early 20th Century. Neoclassicism, romanticism, naturalism, the Generation of '98. **Prerequisites:** *MLL 2403 or consent of instructor.* **Repeatability:** May be repeated two times for credit when content varies, for a maximum of 8 units when content varies.

MLL 4460 - Studies in 20th Century Spanish Literature

Units: 4

Spanish literature after the Generacion del '98; intensive study of a single literary genre, movement theme, or author from 1927 to the present. **Prerequisites:** *MLL 2403 or upper division standing in Spanish, or consent of instructor.* **Repeatability:** May be repeated two times for credit when content varies, for a maximum of 12 units.

Multimedia: Graduate

MM 6100 - Tech I: Principles of Digital Multimedia

Units: 4

Creation, capture, conversion, storage, transport and display of digital multimedia information. Physical basis of perception and digital representations. Multimedia input/output devices and processing architectures. Historical and conceptual basis of multimedia. Course is limited to graduate multimedia majors.

MM 6101 - Multimedia Seminar

Units: 4

Seminar on the conceptual strategies for multimedia development. Also examines key historical events in the emergence of multimedia forms and the role of multimedia in the creation of culture. Particular emphasis placed on small group working dynamics. Course is limited to graduate multimedia majors.

MM 6102 - Application of Learning Theories to Multimedia Design

Units: 4

Learning theories in creating effective educational multimedia for CD and World Wide Web. Trends in cognitive, social, psychological, developmental, and humanistic theories for multimedia content development. **Prerequisites:** *MM 6101 and familiarity with at least one development methodology (e.g., computer software development, theater or video scripting, or educational materials development).*

MM 6103 - Business Basics in Multimedia

Units: 4

Basic business skills for the new economy. Includes options for employment, various uses of multimedia

in industry, and how to create a multimedia business. Business plan creation, marketing, cash flow analysis, and presentation skills are emphasized.

MM 6110 - Tech II: Multimedia Network and Hardware Development

Units: 4

Theory and practice of data networking. Analysis, design and construction of electronic multimedia components including the use of sensors, effectors and controllers. **Prerequisites:** MM 6100.

MM 6120 - Tech III: Multimedia Software Development

Units: 4

Introduction to scripting and programming for multimedia production. **Prerequisites:** MM 6110.

MM 6350 - Audio Production for Multimedia

Units: 4

Developing effective audio for multimedia programs using a variety of digital production tools. Students will develop multimedia audio presentations. **Prerequisites:** MM 4850.

MM 6600 - Interactive Content Development

Units: 4

Team-based interactive content development and management with work on faculty-derived projects. Field trips may be required. Portfolio review and skill assessment required for admittance. **Prerequisites:** *Consent of instructor or Program approval.* **Repeatability:** May be repeated twice for credit, when content varies, for a maximum of 12 units. **Grading:** A-F grading only.

MM 6805 - Forum

Units: 1

Lectures and presentations by professionals and students working in a wide variety of multimedia related disciplines. Forums are open to the general public. **Repeatability:** May be repeated for credit, for a maximum of 4 units.

MM 6860 - Introduction to Multimedia Project Development

Units: 4

Small development projects to evaluate the potential of individual students to succeed as members of a thesis team. Establishment of research project teams and the development of thesis proposals. **Prerequisites:** MM 6100, MM 6101, MM 6120 and classified or conditionally classified standing in the Multimedia, M.A.

MM 6870 - Multimedia Development I

Units: 4

Collaborative interdisciplinary teams begin to develop multimedia projects. Design and creation of interactive audio, video, graphic and narrative content. **Prerequisites:** MM 6860 and advancement to candidacy. *Miscellaneous course fee. See quarterly Class Schedule for current fee.*

MM 6880 - Multimedia Development II

Units: 4

Continuation of multimedia projects begun by the teams established in Multimedia Development I. Project prepared for completion in MM 6899. **Prerequisites:** MM 6870. *A miscellaneous course fee will be charged. Consult the quarterly Class Schedule for the current fee.*

MM 6898 - Cooperative Education

Units: 1-8

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 3.0 GPA; departmental approval of activity.* **Repeatability:** May be repeated for credit, for a maximum of 8 units. A maximum of 8 units accepted toward the major. **Grading:** *CR/NC grading only.*

MM 6899 - Project

Units: 4

Completion of an original professional quality digital interactive multimedia project and comprehensive written documentation. The project and documentation are submitted to the program committee which specifies the format. Weekly supervision by a faculty advisor and quarterly reviews by a faculty committee. Oral presentation of multimedia project is required. **Prerequisites:** MM 6880. *Miscellaneous course fee. See quarterly Class Schedule for current fee.*

MM 6900 - Independent Study

Units: 1-4

Independent study under direction of faculty. **Repeatability:** May be repeated for credit, with consent of advisor, for a maximum of 12 units.

MM 6999 - Issues in Multimedia

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in multimedia. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Music

MUS 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Music: Applied

MUS 1314 - Basic Piano Class I

Units: 1

Group instruction in piano for music majors. MUS 1027-1029; MUS 1031-1033; MUS 1314-1316 to be taken concurrently. **Co-requisites:** MUS 1027; MUS 1031.

MUS 1315 - Basic Piano Class II

Units: 1

Group instruction in piano for music majors. MUS 1027-1029; MUS 1031-1033; MUS 1314-1316 to be taken concurrently. **Prerequisites:** MUS 1314. **Co-requisites:** MUS 1028; MUS 1032.

MUS 1316 - Basic Piano Class III

Units: 1

Group instruction in piano for music majors. MUS 1027-1029; MUS 1031-1033; MUS 1314-1316 to be taken concurrently. **Prerequisites:** MUS 1315. **Co-requisites:** MUS 1029; MUS 1033.

MUS 1601 - Level 10 Vocal Coaching

Units: 1

Individual Instrumental Coaching in collaborative music making for music majors or minors with Freshman-level performance ability. Coaching times arranged according to Level 10 degree recital expectations as outlined in the music major handbook. **Prerequisites:** Consent of instructor or Departmental approval. **Co-requisites:** Concurrent enrollment in at least one course drawn from MUS 1610- 1699 or MUS 1210-1299. **Repeatability:** May be repeated twice for credit for a maximum of 3 units. Students may enroll in a maximum of three units in a single quarter. **Grading:** A-F grading only.

MUS 1602 - Level 10 Instrumental Coaching

Units: 1

Individual vocal coaching in collaborative music making for music majors or minors with Freshman-level performance ability. Coaching times arranged according to Level 10 degree recital expectations as outlined in the music major handbook. **Prerequisites:** *Consent of instructor or Departmental approval.* **Co-requisites:** *Concurrent enrollment in MUS 1620 or MUS 1220.* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. Students may enroll in a maximum of three units in a single quarter. **Grading:** *A-F grading only.*

MUS 1610 - Level 10 Applied Study: Piano

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1611 - Level 10 Applied Study: Organ

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1612 - Level 10 Applied Study: Harpsichord

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1620 - Level 10 Applied Study: Voice

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1630 - Level 10 Applied Study: Violin

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1631 - Level 10 Applied Study: Viola

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1632 - Level 10 Applied Study: Cello

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1633 - Level 10 Applied Study: Bass

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1634 - Level 10 Applied Study: Harp

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1635 - Level 10 Applied Study: Guitar

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1640 - Level 10 Applied Study: Flute

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1641 - Level 10 Applied Study: Oboe

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1642 - Level 10 Applied Study: Clarinet

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1643 - Level 10 Applied Study: Bassoon

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1644 - Level 10 Applied Study: Saxophone

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1650 - Level 10 Applied Study: Trumpet

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1651 - Level 10 Applied Study: French Horn

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1652 - Level 10 Applied Study: Trombone

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1653 - Level 10 Applied Study: Baritone

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1654 - Level 10 Applied Study: Tuba

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1660 - Level 10 Applied Study: Percussion

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1670 - Level 10 Applied Study: Composition

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1680 - Level 10 Applied Study: Conducting

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1685 - Level 10 Applied Study: Interactive and Media Composition

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1690 - Level 10 Applied Study: Jazz Composition

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1691 - Level 10 Applied Study: Jazz Piano and Keyboard

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1692 - Level 10 Applied Study: Jazz Guitar

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1693 - Level 10 Applied Study: Jazz Bass

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1694 - Level 10 Applied Study: Jazz Drums and Percussion

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1695 - Level 10 Applied Study: Jazz Saxophone

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1696 - Level 10 Applied Study: Jazz Trumpet

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 1697 - Level 10 Applied Study: Jazz Trombone

Units: 1

Individual instruction for music majors or minors with Freshman-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2311 - Intermediate Class Piano I

Units: 1

Continuation of MUS 1316. MUS 2311: **Prerequisites:** *Major mode formulae, MUS 1316 and MUS 1033 or equivalents. MUS 2312 : Minor mode formulae; MUS 2311 or consent of instructor. MUS 2313: open score reading; MUS 2312 or consent of instructor.*

MUS 2312 - Intermediate Class Piano II

Units: 1

Continuation of MUS 1316. MUS 2311: **Prerequisites:** *Major mode formulae, MUS 1316 and MUS 1033 or equivalents. MUS 2312 : Minor mode formulae; MUS 2311 or consent of instructor. MUS 2313: open score reading; MUS 2312 or consent of instructor.*

MUS 2313 - Intermediate Class Piano III

Units: 1

Continuation of MUS 1316. MUS 2311: **Prerequisites:** *Major mode formulae, MUS 1316 and MUS 1033 or equivalents. MUS 2312 : Minor mode formulae; MUS 2311 or consent of instructor. MUS 2313: open score reading; MUS 2312 or consent of instructor.*

MUS 2321 - Basic Voice

Units: 1

Class instruction in fundamentals of singing. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

MUS 2371 - Basic Guitar

Units: 1

Fundamentals of playing guitar with emphasis on developing competencies sufficient to employ the instrument as a teaching tool. **Prerequisites:** *Music major or consent of instructor.*

MUS 2601 - Level 20 Vocal Coaching

Units: 1

Individual vocal coaching in collaborative music making for music majors or minors with Sophomore-level performance ability. Coaching times arranged according to Level 20 degree recital expectations as outlined in the music major handbook. **Prerequisites:** *Consent of instructor or Departmental approval.* **Co-requisites:** *Concurrent enrollment in MUS 1220 or MUS 2620.* **Repeatability:** May be repeated three times for credit for a maximum of four units. Students may enroll in a maximum of three units in a single quarter. **Grading:** *A-F grading only.*

MUS 2602 - Level 20 Instrumental Coaching

Units: 1

Individual Instrumental Coaching in collaborative music making for music majors or minors with Sophomore-level performance ability. Coaching times arranged according to Level 20 degree recital expectations as outlined in the music major handbook. **Prerequisites:** *Consent of instructor or Departmental approval.* **Co-requisites:** *Concurrent enrollment in at least one course drawn from MUS 2610-MUS 2699 or MUS 1210-MUS 1299.* **Repeatability:** May be repeated three times for credit for a maximum of four units. Students may enroll in a maximum of three units in a single quarter. **Grading:** *A-F grading only.*

MUS 2610 - Level 20 Applied Study: Piano

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2611 - Level 20 Applied Study: Organ

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2612 - Level 20 Applied Study: Harpsichord

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2620 - Level 20 Applied Study: Voice

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2630 - Level 20 Applied Study: Violin

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2631 - Level 20 Applied Study: Viola

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2632 - Level 20 Applied Study: Cello

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance*

Ensemble (MUS 3500-3530). Repeatability: May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2633 - Level 20 Applied Study: Bass

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2634 - Level 20 Applied Study: Harp

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2635 - Level 20 Applied Study: Guitar

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2640 - Level 20 Applied Study: Flute

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2641 - Level 20 Applied Study: Oboe

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2642 - Level 20 Applied Study: Clarinet

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2643 - Level 20 Applied Study: Bassoon

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2644 - Level 20 Applied Study: Saxophone

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2650 - Level 20 Applied Study: Trumpet

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance*

Ensemble (MUS 3500-3530). Repeatability: May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2651 - Level 20 Applied Study: French Horn

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2652 - Level 20 Applied Study: Trombone

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2653 - Level 20 Applied Study: Baritone

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2654 - Level 20 Applied Study: Tuba

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2660 - Level 20 Applied Study: Percussion

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2670 - Level 20 Applied Study: Composition

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2680 - Level 20 Applied Study: Conducting

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2685 - Level 20 Applied Study: Interactive and Media Composition

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2690 - Level 20 Applied Study: Jazz Composition

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance*

Ensemble (MUS 3500-3530). Repeatability: May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2691 - Level 20 Applied Study: Jazz Piano and Keyboard

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2692 - Level 20 Applied Study: Jazz Guitar

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2693 - Level 20 Applied Study: Jazz Bass

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2694 - Level 20 Applied Study: Jazz Drums and Percussion

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units.
Grading: A-F grading only.

MUS 2695 - Level 20 Applied Study: Jazz Saxophone

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2696 - Level 20 Applied Study: Jazz Trumpet

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 2697 - Level 20 Applied Study: Jazz Trombone

Units: 1

Individual instruction for music majors or minors with Sophomore-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 1610-MUS 1699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-3530).* **Repeatability:** May be repeated twice for credit for a maximum of 3 units. **Grading:** *A-F grading only.*

MUS 3601 - Level 30 Vocal Coaching

Units: 1

Individual vocal coaching in collaborative music making for music majors or minors with Junior-level performance ability. Coaching times arranged according to Level 30 degree recital expectations as outlined in the music major handbook. **Prerequisites:** *Consent of instructor or Departmental approval.* **Co-requisites:** *Concurrent enrollment in MUS 3220 or MUS 3620.* **Repeatability:** May be repeated five times for credit for a maximum of six units. Students may enroll in a maximum of 3 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3602 - Level 30 Instrumental Coaching

Units: 1

Individual Instrumental Coaching in collaborative music making for music majors or minors with Junior-level performance ability. Coaching times arranged according to Level 30 degree recital expectations as outlined in the music major handbook. **Prerequisites:** *Consent of instructor or Departmental approval.* **Co-requisites:** *Concurrent enrollment in at least one course drawn from MUS 3610-MUS 3699.* **Repeatability:** May

be repeated five times for credit for a maximum of six units. Students may enroll in a maximum of 3 units in a single quarter. **Grading:** A-F grading only.

MUS 3609 - Recital

Units: 1

Preparation for and performance of a public musical recital. Capstone experience for level 30 applied instruction and a prerequisite for level 40 applied instruction. **Prerequisites:** One (1) quarter of MUS 3610-MUS 3697 Applied Music (major performance media). **Co-requisites:** MUS 3610-MUS 3697. **Grading:** A-F grading only.

MUS 3610 - Level 30 Applied Study: Piano

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 3611 - Level 30 Applied Study: Organ

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 3612 - Level 30 Applied Study: Harpischord

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 3620 - Level 30 Applied Study: Voice

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS

2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 3630 - Level 30 Applied Study: Violin

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 3631 - Level 30 Applied Study: Viola

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 3632 - Level 30 Applied Study: Cello

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 3633 - Level 30 Applied Study: Bass

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 3634 - Level 30 Applied Study: Harp

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3635 - Level 30 Applied Study: Guitar

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3640 - Level 30 Applied Study: Flute

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3641 - Level 30 Applied Study: Oboe

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3642 - Level 30 Applied Study: Clarinet

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated

for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 3643 - Level 30 Applied Study: Bassoon

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 3644 - Level 30 Applied Study: Saxophone

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 3650 - Level 30 Applied Study: Trumpet

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 3651 - Level 30 Applied Study: French Horn

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 3652 - Level 30 Applied Study: Trombone

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3653 - Level 30 Applied Study: Baritone

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3654 - Level 30 Applied Study: Tuba

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3660 - Level 30 Applied Study: Percussion

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3670 - Level 30 Applied Study: Composition

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated

for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 3680 - Level 30 Applied Study: Conducting

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 3685 - Level 30 Applied Study: Interactive and Media Composition

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 3690 - Level 30 Applied Study: Jazz Composition

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 3691 - Level 30 Applied Study: Jazz Piano and Keyboard

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 3692 - Level 30 Applied Study: Jazz Guitar

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3693 - Level 30 Applied Study: Jazz Bass

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3694 - Level 30 Applied Study: Jazz Drums and Percussion

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3695 - Level 30 Applied Study: Jazz Saxophone

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** *A-F grading only.*

MUS 3696 - Level 30 Applied Study: Jazz Trumpet

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** *Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699.* **Co-requisites:** *Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study.* **Repeatability:** May be repeated

for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 3697 - Level 30 Applied Study: Jazz Trombone

Units: 1

Individual instruction for music majors or minors with Junior-level performance ability. Audition required. **Prerequisites:** Completion of the corresponding previous level course drawn from MUS 2610-MUS 2699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 3609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter.
Grading: A-F grading only.

MUS 4601 - Level 40 Vocal Coaching

Units: 1

Individual vocal coaching in collaborative music making for music majors or minors with Senior-level performance ability. Coaching times arranged according to Level 40 degree recital expectations as outlined in the music major handbook. **Prerequisites:** Consent of instructor or Departmental approval. **Co-requisites:** Concurrent enrollment in MUS 3220 or MUS 4620. **Repeatability:** May be repeated seven times for credit for a maximum of eight units. Students may enroll in a maximum of 3 units in a single quarter.
Grading: A-F grading only.

MUS 4602 - Level 40 Instrumental Coaching

Units: 1

Individual instrumental coaching in collaborative music making for music majors or minors with Senior-level performance ability. Coaching times arranged according to Level 40 degree recital expectations as outlined in the music major handbook. **Prerequisites:** Consent of instructor or Departmental approval. **Co-requisites:** Concurrent enrollment in at least one course drawn from MUS 4610- 4699. **Repeatability:** May be repeated seven times for credit for a maximum of eight units. Students may enroll in a maximum of 3 units in a single quarter.

MUS 4609 - Level 40 Recital

Units: 1

Preparation for and performance of a public musical recital. Capstone experience for applied music instruction. **Prerequisites:** MUS 3609; two (2) quarters of MUS 4610-MUS 4697 Applied Music (major performance media). **Co-requisites:** MUS 4610-MUS 4697. **Grading:** A-F grading only.

MUS 4610 - Level 40 Applied Study: Piano

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-

MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4611 - Level 40 Applied Study: Organ

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4612 - Level 40 Applied Study: Harpsichord

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4620 - Level 40 Applied Study: Voice

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4630 - Level 40 Applied Study: Violin

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4631 - Level 40 Applied Study: Viola

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4632 - Level 40 Applied Study: Cello

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4633 - Level 40 Applied Study: Bass

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4634 - Level 40 Applied Study: Harp

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4635 - Level 40 Applied Study: Guitar

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May

be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4640 - Level 40 Applied Study: Flute

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4641 - Level 40 Applied Study: Oboe

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4642 - Level 40 Applied Study: Clarinet

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4643 - Level 40 Applied Study: Bassoon

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4644 - Level 40 Applied Study: Saxophone

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4650 - Level 40 Applied Study: Trumpet

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4651 - Level 40 Applied Study: French Horn

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4652 - Level 40 Applied Study: Trombone

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4653 - Level 40 Applied Study: Baritone

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May

be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4654 - Level 40 Applied Study: Tuba

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4660 - Level 40 Applied Study: Percussion

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4670 - Level 40 Applied Study: Composition

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4680 - Level 40 Applied Study: Conducting

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4685 - Level 40 Applied Study: Interactive and Media Composition

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4690 - Level 40 Applied Study: Jazz Composition

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4691 - Level 40 Applied Study: Jazz Piano and Keyboard

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4692 - Level 40 Applied Study: Jazz Guitar

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4693 - Level 40 Applied Study: Jazz Bass

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May

be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4694 - Level 40 Applied Study: Jazz Drums and Percussion

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4695 - Level 40 Applied Study: Jazz Saxophone

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4696 - Level 40 Applied Study: Jazz Trumpet

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

MUS 4697 - Level 40 Applied Study: Jazz Trombone

Units: 1

Individual instruction for music majors or minors with Senior-level performance ability. Audition required. **Prerequisites:** Completion of MUS 3609. Completion of the corresponding previous level course drawn from MUS 3610-MUS 3699. **Co-requisites:** Concurrent enrollment in a Major Performance Ensemble (MUS 3500-MUS 3530). Concurrent enrollment in Recital (MUS 4609) during the second quarter of study. **Repeatability:** May be repeated for credit for a maximum of 6 units. Students may enroll in a maximum of 2 units in a single quarter. **Grading:** A-F grading only.

Music: Applied: Graduate

MUS 6280 - Advanced Applied Conducting

Units: 2

Ensemble conducting techniques including stylistic, pedagogical, and physical studies in gesture. Score analysis and ear training through the study of music from all genres and historical periods. Advanced rehearsal techniques and program building, including the development of ensemble. **Prerequisites:** *Consent of instructor.* **Repeatability:** May be repeated five times for credit for a maximum of 12 units.

MUS 6601 - Graduate Vocal Coaching

Units: 1

Individual vocal coaching in collaborative music making for music majors or minors with Graduate-level performance ability. Coaching times arranged according to graduate degree recital expectations as outlined in the music major handbook. **Prerequisites:** *Consent of instructor or Departmental approval.* **Co-requisites:** *Concurrent enrollment in MUS 6220 or MUS 6620.* **Repeatability:** May be repeated 11 times for credit for a maximum of 12 units. Students may enroll in a maximum of 3 units in a single quarter. **Grading:** *A-F grading only.*

MUS 6602 - Graduate Instrumental Coaching

Units: 1

Individual instrumental coaching in collaborative music making for music majors or minors with Graduate-level performance ability. Coaching times arranged according to graduate degree recital expectations as outlined in the music major handbook. **Prerequisites:** *Consent of instructor or Departmental approval.* **Co-requisites:** *Concurrent enrollment in at least one course drawn from MUS 6610-MUS 6699 or MUS 6210-MUS 6299.* **Repeatability:** May be repeated 11 times for credit for a maximum of 12 units. Students may enroll in a maximum of 3 units in a single quarter. **Grading:** *A-F grading only.*

MUS 6610 - Graduate Applied Study: Piano

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6611 - Graduate Applied Study: Organ

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6612 - Graduate Applied Study: Harpsichord

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6620 - Graduate Applied Study: Voice

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6630 - Graduate Applied Study: Violin

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6631 - Graduate Applied Study: Viola

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6632 - Graduate Applied Study: Cello

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6633 - Graduate Applied Study: Bass

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6634 - Graduate Applied Study: Harp

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6635 - Graduate Applied Study: Guitar

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6640 - Graduate Applied Study: Flute

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6641 - Graduate Applied Study: Oboe

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6642 - Graduate Applied Study: Clarinet

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6643 - Graduate Applied Study: Bassoon

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6644 - Graduate Applied Study: Saxophone

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6650 - Graduate Applied Study: Trumpet

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6651 - Graduate Applied Study: French Horn

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6652 - Graduate Applied Study: Trombone

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6653 - Graduate Applied Study: Baritone

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6654 - Graduate Applied Study: Tuba

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6660 - Graduate Applied Study: Percussion

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6670 - Graduate Applied Study: Composition

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6680 - Graduate Applied Study: Conducting

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6685 - Graduate Applied Study: Interactive and Media Composition

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6690 - Graduate Applied Study: Jazz Composition

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6691 - Graduate Applied Study: Jazz Piano and Keyboard

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6692 - Graduate Applied Study: Jazz Guitar

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6693 - Graduate Applied Study: Jazz Bass

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6694 - Graduate Applied Study: Jazz Drums and Percussion

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6695 - Graduate Applied Study: Jazz Saxophone

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6696 - Graduate Applied Study: Jazz Trumpet

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

MUS 6697 - Graduate Applied Study: Jazz Trombone

Units: 1-3

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of third quarter of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course. **Prerequisites:** *Graduate level performance ability as outlined in the Department of Music Handbook.* **Repeatability:** May be repeated for credit for a maximum of 12 units. Students may enroll in a maximum of two units in a single quarter. **Grading:** *A-F grading only.*

Music: Courses for Non-Music Majors

MUS 1004 - Introduction to World Music

Units: 4

Survey of the music and artistic media of non-European cultures including Polynesia, Australia, Africa, Asia, Middle East and native North America. Development of musical understanding through exploration of basic universal elements of music, dance, ceremony and common human values. Previous musical training not necessary. Field trips may be required. **Credit Restrictions:** Not open to students with credit for MUS 1014.

MUS 1006 - History of Rock and Roll

Units: 4

A survey of important performers and styles from the 1950's to the present, and of the music's African, rhythm and blues, and classical music sources. Previous musical training not necessary. **Credit Restrictions:** Not open to students with credit for MUS 2130.

MUS 1007 - History of Jazz

Units: 4

Periods, major performers and composers, trends, influences, stylistic features and cultural significance. Field trips may be required.

MUS 1008 - Music Theory for Non-Music Majors I

Units: 4

Fundamentals of music notation. Major and minor scale and chord formations. Emphasis on practical musicianship through rhythmic exercises and reading of songs on simple melody and rhythm instruments. Recommended for non-music majors in Liberal Studies and Multiple Subject Credential programs.

MUS 1014 - Introduction to World Music History

Units: 4

Survey of the music of selected cultures. Relationships among art, music, and religions from around the world with emphasis on cultural, historical, and social influences. **Credit Restrictions:** Not open to those with credit for MUS 1004/ANTH 1004.

MUS 1104 - Global Hip-Hop

Units: 4

Exploration of the spread of hip-hop throughout the world, examining the social context, stylistic sources and musical work of artists from the US, Africa, Asia, Europe, and Latin America.

MUS 1106 - Blues, R&B and Soul

Units: 4

Examination of three musical genres that form the backbone of American popular music - blues, rhythm & blues, and soul - and the way these styles influence popular music and culture in the US and the rest of the world.

MUS 2269 - Arts and Media of the Golden State

Units: 4

The role of creativity in California, the mass-media cultural center of the world, including the stage, screen, recording industry, media, Silicon Valley, and gaming. Introduction to arts and media forms with an emphasis on the roles of delivery and content in developing a personal understanding and appreciation for arts and culture. Requires attendance at on- and off- campus arts and cultural events. **Credit**

Restrictions: Not open to students with credit for THEA 2269.

MUS 3002 - What to Listen for in Music

Units: 4

Development of a greater appreciation and enjoyment of music through study of the musical content of selected works. Study of the elements of music to develop critical listening skills applicable to all styles of music. Previous musical training not necessary. Field trips may be required.

MUS 3014 - Introduction to World Music and Culture

Units: 4

Music as tradition and the continuity it nurtures within a culture. Traditional music of Africa, Asia, Latin America and the Middle East will be examined incorporating folk, classical, world beat, jazz, popular and experimental musics.

MUS 3120 - Art Song Literature

Units: 4

An historical survey of art song literature with a focus on important composers and their respective contributions to the genre. Includes the study of important song cycles. Intended for singers, teaching professionals, and aspiring private studio teachers. **Prerequisites:** *Consent of instructor.*

MUS 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; departmental approval of activity.*

Repeatability: May be repeated for credit, for a maximum of 8 units. Not applicable to the music major; a maximum of 4 units may be applied to the music minor. **Grading:** *CR/NC grading only.*

MUS 3999 - Issues in Music

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in music. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Music: Education

MUS 2331 - Basic Orchestral Instruments: Violin and Viola

Units: 1

Instruction in the fundamentals of playing orchestral instruments; methods and materials for use in elementary and secondary schools. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

MUS 2332 - Basic Orchestral Instruments: Cello and Bass

Units: 1

Instruction in the fundamentals of playing orchestral instruments; methods and materials for use in elementary and secondary schools. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

MUS 2341 - Basic Orchestral Instruments: Clarinet

Units: 1

Instruction in the fundamentals of playing orchestral instruments; methods and materials for use in elementary and secondary schools. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

MUS 2342 - Basic Orchestral Instruments: Double Reeds

Units: 1

Instruction in the fundamentals of playing orchestral instruments; methods and materials for use in elementary and secondary schools. **Prerequisites:** MUS 2341 **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

MUS 2343 - Basic Orchestral Instruments: Flute and Saxophone

Units: 1

Instruction in the fundamentals of playing orchestral instruments; methods and materials for use in elementary and secondary schools. **Prerequisites:** MUS 2341 **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

MUS 2355 - Basic Orchestral Instruments: Basic Brass

Units: 1

Instruction in the fundamentals of playing orchestral instruments; methods and materials for use in elementary and secondary schools. Fundamentals of playing brass orchestral instruments (trumpet, French horn, trombone, baritone, tuba) with attention to elementary and secondary school teaching techniques and materials. Two instruments will be studied each quarter. **Prerequisites:** *Music major; others by consent of instructor.* **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

MUS 2361 - Basic Orchestral Instruments: Percussion

Units: 1

Instruction in the fundamentals of playing orchestral instruments; methods and materials for use in elementary and secondary schools. **Repeatability:** May be repeated once for credit, for a maximum of 2 units.

MUS 2410 - Foundations of Music Education

Units: 4

Overview of music education from K-12 for prospective music teachers. Students are introduced to methods by Kodaly, Orff, Suzuki, and others. Topics: philosophy of music education, music pedagogy for K-12, and the history, economics and politics of music education. **Grading:** *A-F grading only.*

MUS 3095 - Music Technology for Educators

Units: 3

Instruction in uses of audio and software, and software for desktop, interactive, and music publishing to aid in the development of music education curricula, programs, and lessons.

MUS 3370 - Basic Conducting

Units: 3

Basic techniques of conducting including simple, compound and asymmetrical meters, expression and interpretation through observation and laboratory experience. **Prerequisites:** *Upper division standing or consent of instructor.*

MUS 3380 - Choral Conducting

Units: 3

Special techniques of choral conducting including vocal and score reading and analysis, interpretation, and rehearsal through observation and laboratory experience. **Prerequisites:** *Upper division standing or consent of instructor; MUS 3370 or equivalent must precede MUS 3380.*

MUS 3390 - Instrumental Conducting

Units: 3

Special techniques of instrumental conducting including score reading and analysis, interpretation,

rehearsal through observation and laboratory experience. **Prerequisites:** *Upper division standing or consent of instructor. MUS 3370 or equivalent must precede MUS 3390.*

MUS 4435 - Seminar in Public School Instrumental Teaching Techniques

Units: 3

Provides opportunity for students intending to become teachers to develop rehearsal techniques, organizational procedures related to public school band and orchestra programs; to become familiar with public school teaching materials; to further develop conducting techniques; and to improve secondary instruments skills. Field trips may be required. **Prerequisites:** *Basic Conducting; two quarters each, basic strings, woodwinds, brass, one of percussion; others by consent of instructor.*

MUS 4440 - Seminar in Public School Choral Teaching Techniques

Units: 3

Development of rehearsal techniques and organizational procedures related to choirs and vocal ensembles in the public schools. Teaching materials and appropriate literature from various stylistic periods. Field trips may be required. **Prerequisites:** *MUS 3370 and MUS 3380, or consent of instructor.*

MUS 4445 - Seminar in Elementary Classroom Music Teaching Techniques

Units: 3

Development of classroom management and teaching techniques appropriate for elementary general music and choral classes. Emphasis on the Kodaly method and related instructional materials. Field trips may be required. **Prerequisites:** *Upper division standing or consent of instructor.*

Music: Graduate

MUS 6000 - Seminar in Bibliography and Research Methods

Units: 3

Analysis of specialized bibliography and methodology employed in the four main areas of music history/literature, theory and composition, music education, and performance. Individual research on selected topics. Required for Advancement to Candidacy. **Prerequisites:** *Graduate standing in music or consent of the instructor.*

MUS 6085 - Interactivity with Sound & Music I

Units: 4

Rudiments of hardware and software connectivity between different devices and programs for sound and music. Topics include the use of MIDI, Open Sound Control, and non-musically focused technology to create new sounds and musical experiences. **Prerequisites:** *Graduate standing or consent of instructor.*

MUS 6445 - Teaching Music in Higher Education

Units: 3

Preparation for careers in post-secondary education. Study of learning theories, curriculum development, assessment, and materials for teaching music in higher education. **Prerequisites:** *Instructor consent.*

MUS 6899 - Project

Units: 1-3

Development of an original product which is summarized in a written abstract. Both the project and the abstract are submitted to the department which specifies their formats. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense may be required. **Prerequisites:** *Graduate standing. Maximum of 3 units per student.*

MUS 6900 - Independent Study

Units: 1-4

MUS 6910 - University Thesis

Units: 1-6

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See also, "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course. Prerequisites: Graduate standing. Maximum of 6 units per student.

MUS 6999 - Issues in Music

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in music. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Music: History and Literature

MUS 1155 - Music Through the Ages

Units: 4

Introduction to the history of Western art music. Emphasis on listening, reading, and beginning score study to develop awareness of style and structure. Influence of various styles and genres of music from other cultures may be included. **Prerequisites:** MUS 1032 or permission of instructor.

MUS 3155 - Music Literature and Analysis I

Units: 4

Emphasis given to style analysis; the relationship of music to the social and cultural background of each

epoch. I. Music from the beginnings of Western Civilization through Medieval and Renaissance times. **Prerequisites:** *MUS 2033 or consent of instructor.*

MUS 3156 - Music Literature and Analysis II

Units: 4

Emphasis given to style analysis; the relationship of music to the social and cultural background of each epoch. II. Music of the Baroque and Classical periods. **Prerequisites:** *MUS 2033 or consent of instructor.*

MUS 3157 - Music Literature and Analysis III

Units: 4

Emphasis given to style analysis; the relationship of music to the social and cultural background of each epoch. III. Music of the Romantic and Contemporary periods. **Prerequisites:** *MUS 2033 or consent of instructor.*

MUS 3297 - Orchestral Repertoire I

Units: 2

Survey of instrumental Western classical music ensemble repertoire. Examination of music performance conventions of the baroque and classical periods. Study and performance of standard orchestral repertoire excerpts relevant to their instrument, with an emphasis on preparation for professional performance situations. **Prerequisites:** *MUS 1033.* **Grading:** *A-F grading only.*

MUS 3298 - Orchestral Repertoire II

Units: 2

Continuation of MUS 3297. Examination of music performance conventions of the Romantic period. Study and performance of standard orchestral repertoire excerpts relevant to their instrument, with an emphasis on preparation for professional performance situations. **Prerequisites:** *MUS 1033, MUS 3297.* **Grading:** *A-F grading only.*

MUS 3299 - Orchestral Repertoire III

Units: 2

Continuation of MUS 3298. Examination of music performance conventions of twentieth century classical music, film music, and Broadway styles. Study and performance of standard orchestral repertoire excerpts relevant to their instrument, with an emphasis on preparation for professional performance situations. **Prerequisites:** *MUS 1033, MUS 3297, MUS 3298.* **Grading:** *A-F grading only.*

MUS 4145 - History of Jazz

Units: 3

Advanced review of the history and development of jazz music from the Colonial American time period

to today. Emphasis on formal, stylistic, theoretical, and social evolution of jazz and related genres of music. **Prerequisites:** *MUS 2033 or consent of instructor.* **Grading:** A-F grading only.

Music: History and Literature: Graduate

MUS 6100 - Seminar in History of Western Music

Units: 4

Advanced review of the history of Western music from the Medieval period to the present. Emphasis on stylistic, formal, and theoretical development. **Prerequisites:** *Graduate standing or consent of instructor. Not for credit toward M.A. degree in music.*

MUS 6105 - History of Music, Medieval to Renaissance

Units: 3

A comprehensive study of musical forms and styles from 1100 to 1600 with detailed analyses of representative works and theoretical writings. **Prerequisites:** *Graduate standing in music or consent of instructor.*

MUS 6115 - Music in the Baroque Period

Units: 3

A detailed study of musical styles, forms, and performance practice from 1600 to 1750, with analyses of representative works. **Prerequisites:** *Graduate standing in music or consent of instructor.*

MUS 6125 - Music of the Classical Period

Units: 3

A detailed study of the development of musical forms and performance media, from the Rococo to the end of the 18th Century. **Prerequisites:** *Graduate standing in music or consent of instructor.*

MUS 6135 - Music of the Romantic Period

Units: 3

An intensive study of the structure and development of music from Beethoven through the end of the 19th Century. **Prerequisites:** *Graduate standing in music or consent of instructor.*

MUS 6155 - Music and Culture of Asia

Units: 3

Issues of identity, politics, modernization, and globalization, as encountered through the music of the Asian diaspora of the Bay Area. Music of India, Indonesia, Japan and central Asian countries will be studied from an ethnomusicological perspective. **Prerequisites:** *Graduate standing in Music or permission of instructor.*

MUS 6180 - Contemporary Music

Units: 3

Research of developments in music since 1950, including recent 12-tone theory, aleatoric techniques, and electronic music. **Strongly Recommended:** Strongly Recommended: Graduate standing in Music or permission of instructor.

Music: Performance Activities

MUS 3501 - Large Ensembles: University Chorus

Units: 1

Large ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Field trips may be required. **Repeatability:** Each large ensemble may be repeated for credit, for a maximum of 12 units.

MUS 3502 - Large Ensembles: University Orchestra

Units: 1

Large ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Field trips may be required. **Repeatability:** Each large ensemble may be repeated for credit, for a maximum of 12 units.

MUS 3504 - Large Ensembles: East Bay Singers

Units: 1

Large ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Field trips may be required. **Repeatability:** Each large ensemble may be repeated for credit, for a maximum of 12 units.

MUS 3510 - Large Ensembles: East Bay Jazz Workshop

Units: 1

Large ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Field trips may be required. **Repeatability:** Each large ensemble may be repeated for credit, for a maximum of 12 units.

MUS 3511 - Large Ensembles: East Bay Wind Symphony

Units: 1

Large ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Field trips may be required. **Repeatability:** Each large ensemble may be repeated for credit, for a maximum of 12 units.

MUS 3515 - Large Ensembles: Singing Society

Units: 1

Large ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Field trips may be required. **Repeatability:** Each large ensemble may be repeated for credit, for a maximum of 12 units.

MUS 3531 - Chamber Ensembles: Chamber Winds

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Repertoire for small and large combinations of winds, brass, and percussion with occasional soloists. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3532 - Chamber Ensembles: Brass

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Repertoire for small and large combinations of brass instruments with occasional soloists. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3533 - Chamber Ensembles: Trumpet

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Repertoire for small and large combinations of trumpets with occasional soloists. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3535 - Chamber Ensembles: Percussion

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Repertoire for small and large combinations of pitched and non-pitched percussion instruments. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3536 - Chamber Ensembles: African Drumming

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Repertoire for small and large

combinations of African drums and percussion instruments. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3541 - Chamber Ensembles: String

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Repertoire for small and large combinations of bowed, struck and plucked string instruments with occasional soloists. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3542 - Chamber Ensembles: Guitar

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Repertoire for small and large combinations of guitars with occasional soloists. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3543 - Chamber Ensembles: Piano

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Repertoire for small and large combinations of keyboard instruments with special attention paid towards works for piano four-hands and two pianos. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3550 - Chamber Ensembles: Jazz Improvisation

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Introductory-level jazz ensemble focusing on general improvisation techniques in jazz. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3551 - Chamber Ensembles: Jazz Standards

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Jazz ensemble focusing on standard jazz combo repertoire. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3552 - Chamber Ensembles: Contemporary Jazz

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Jazz ensemble emphasizing modern, mainstream jazz repertoire. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3553 - Chamber Ensembles: Blue Note Jazz

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Small jazz ensemble focusing on post-bop jazz of the 1950's and 1960's. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3554 - Chamber Ensembles: Latin Jazz

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Jazz ensemble focusing on Afro-Cuban, Salsa, and Brazilian jazz repertoire. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3555 - Chamber Ensembles: Jazz Composers

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Jazz ensemble focusing on the composition and performance of student works for jazz ensemble. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3556 - Chamber Ensembles: Electric Jazz

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Jazz ensemble focusing on Fusion, Funk, and World Jazz. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3557 - Chamber Ensembles: Avant-garde Jazz

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are

required to enroll in one major performance group each quarter. Jazz ensemble focusing on free improvisation, game pieces, extended improvisation techniques, and other experimental means of composing and performing jazz. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3558 - Chamber Ensembles: Rhythm Section

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Jazz ensemble emphasizing rhythmically challenging material such as odd-meter composition, polyrhythmic works, and pieces with frequent and dramatic metric changes. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3559 - Chamber Ensembles: Sight-reading

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Jazz ensemble focusing on continual honing of sight-reading abilities through continual practice and performance of works unseen previous to rehearsal. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3560 - Chamber Ensembles: Vocal Repertory

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Chamber ensemble focusing on repertoire for solo voice and small and large combinations of voices with special attention paid to Art Song and peer review and collaborative assessment of performance practice. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3561 - Chamber Ensembles: Chamber Singers

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Small vocal ensemble focusing on repertoire for chamber choir, mixed voices. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3562 - Chamber Ensembles: Jazz Singers

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are

required to enroll in one major performance group each quarter. Small vocal ensemble focusing on repertoire for chamber choir, mixed voices, that is drawn from jazz, pop, and world traditions. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

MUS 3570 - Chamber Ensembles: Orchestre dB New Music

Units: 1

Chamber ensembles are open to all qualified students (determined by audition). Music majors are required to enroll in one major performance group each quarter. Chamber ensemble focusing on repertoire for small and large combinations of string, wind, brass, percussion, vocal, keyboard, and electronic instruments with special attention paid towards the workshop and performance of newly composed student and faculty works. Field trips may be required. **Repeatability:** Each chamber ensemble may be repeated for credit, for a maximum of 6 units per ensemble.

Music: Theory

MUS 1027 - Sightsinging I

Units: 1

Development of music reading skills applicable to all instrumental and vocal performance media. Dictation, analysis and singing of melodies and melodic exercises; study and performance of basic rhythmic materials. MUS 1027-1029; MUS 1031-1033; MUS 1314-1316 to be taken concurrently. **Co-requisites:** MUS 1031; MUS 1314.

MUS 1028 - Sightsinging II

Units: 1

Development of music reading skills applicable to all instrumental and vocal performance media. Dictation, analysis and singing of melodies and melodic exercises; study and performance of basic rhythmic materials. MUS 1027-1029; MUS 1031-1033; MUS 1314-1316 to be taken concurrently. **Prerequisites:** MUS 1027, or consent of instructor. **Co-requisites:** MUS 1032; MUS 1315.

MUS 1029 - Sightsinging III

Units: 1

Development of music reading skills applicable to all instrumental and vocal performance media. Dictation, analysis and singing of melodies and melodic exercises; study and performance of basic rhythmic materials. MUS 1027-1029; MUS 1031-1033; MUS 1314-1316 to be taken concurrently. **Prerequisites:** MUS 1028, or consent of instructor. **Co-requisites:** MUS 1033; MUS 1316.

MUS 1031 - Music Theory I

Units: 4

The integrated study of tonal harmony, part-writing, analysis and ear-training. I. Intensive fundamentals,

triads and seventh chords. Each student will take an assessment exam at the beginning of the quarter to determine the level of preparedness in fundamentals. MUS 1027-1029; MUS 1031-1033; MUS 1314-1316 to be taken concurrently. **Co-requisites:** MUS 1027; MUS 1314.

MUS 1032 - Music Theory II

Units: 4

The integrated study of tonal harmony, part-writing, analysis and ear-training. II. Elementary counterpoint, figuration, SATB scoring, elementary instrumentation, and arranging. MUS 1027-1029; MUS 1031-1033; MUS 1314-1316 to be taken concurrently. **Prerequisites:** MUS 1027, MUS 1031, MUS 1314. **Co-requisites:** MUS 1028; MUS 1315.

MUS 1033 - Music Theory III

Units: 4

The integrated study of tonal harmony, part-writing, analysis and ear-training. III. Harmonization, advanced figuration, chorale harmonization, sequences. MUS 1027-1029; MUS 1031-1033; MUS 1314-1316 to be taken concurrently. **Prerequisites:** MUS 1028, MUS 1032, MUS 1315. **Co-requisites:** MUS 1029; MUS 1316.

MUS 1085 - Introduction to Audio Production

Units: 4

Application to music composition and recording of fundamental acoustics and psychoacoustics, MIDI, and digital audio workstation (DAW) software.

MUS 2027 - Sightsinging IV

Units: 1

Skills development in ear training and sight-singing. Includes melodic, harmonic, and rhythmic performance, analysis and dictation. **Prerequisites:** MUS 1029, or consent of instructor. **Co-requisites:** MUS 2031.

MUS 2028 - Sightsinging V

Units: 1

Skills development in ear training and sight-singing. Includes melodic, harmonic, and rhythmic performance, analysis and dictation. **Prerequisites:** MUS 2027, or consent of instructor. **Co-requisites:** MUS 2032.

MUS 2029 - Sightsinging VI

Units: 1

Skills development in ear training and sight-singing. Includes melodic, harmonic, and rhythmic

performance, analysis and dictation. **Prerequisites:** *MUS 2028, or consent of instructor.* **Co-requisites:** *MUS 2033.*

MUS 2031 - Music Theory IV

Units: 4

IV. Sequences, secondary dominants, tonicization and modulation, phrase and motivic analysis.

Prerequisites: *MUS 1029, MUS 1033, MUS 1316.* **Co-requisites:** *MUS 2027.*

MUS 2032 - Music Theory V

Units: 4

V. Introduction to form, chromaticism, advanced tonal procedures. **Prerequisites:** *MUS 2027, MUS 2031.*

Co-requisites: *MUS 2028*

MUS 2033 - Music Theory VI

Units: 4

VI. Twentieth Century music up to the present; extension of tonality; non-tonal music. Analysis and compositional exercises. **Prerequisites:** *MUS 2028, MUS 2032.* **Co-requisites:** *MUS 2029.*

MUS 3034 - Analysis of Contemporary Music

Units: 4

Exploration of various music systems implemented by composers from 1940 forward. Pitch-class set analysis and dissection of the implementation of procedural music systems across genres. **Prerequisites:** *MUS 2033.*

MUS 3037 - Improvisation Techniques I

Units: 4

Introduction to improvisation techniques for jazz instrumentalists. Use of modes (major & melodic minor), symmetrical scales, and arpeggios in improvisation. Emphasis on the development of an idiomatic jazz style through the transcription and analysis of recorded solos by jazz masters. **Prerequisites:** *MUS 1033.* **Grading:** *A-F grading only.*

MUS 3038 - Improvisation Techniques II

Units: 4

Continuation of MUS 3037. Advanced techniques in jazz improvisation. Topics include harmonic superimposition, playing "out", and poly-rhythms and cross-rhythms. Emphasis on the development of an idiomatic jazz style through the transcription and analysis of recorded solos by jazz masters. **Prerequisites:** *MUS 1033, MUS 3037.* **Grading:** *A-F grading only.*

MUS 3040 - Jazz Theory & Composition

Units: 4

Study of jazz harmonic theory and composition for small jazz ensembles. Topics include the analysis of standard jazz repertoire and compositions by jazz composers, jazz applications of tonal harmony, reharmonization techniques and chord substitution, and idiomatic song forms. **Prerequisites:** *MUS 1033*.
Grading: *A-F grading only*.

MUS 3051 - Form and Analysis

Units: 4

The study and analysis of music written in traditional forms. **Prerequisites:** *MUS 2033*.

MUS 3061 - Counterpoint I, II

Units: 4

I. The writing of counterpoint modeled on the style of Palestrina. Additional work modeled on other 16th century composers may be introduced at the discretion of the instructor. **Strongly Recommended:** Strongly Recommended: *MUS 2032*.

MUS 3062 - Counterpoint I, II

Units: 4

II. The writing of counterpoint modeled on the style of J. S. Bach. Additional work modeled on other 17th and 18th century composers may be introduced at the discretion of the instructor. **Strongly Recommended:** Strongly Recommended: *MUS 2032*.

MUS 3086 - Audio: Sequencing

Units: 4

Using music sequencing software such as Reason, Ableton, and Digital Performer, to run hardware and software synthesizers and samplers in the creation of digital music. **Credit Restrictions:** Not open to students with credit for *MUS 3082*.

MUS 3091 - Music Notation Software

Units: 3

Using music notation software and other publishing pre-press software to produce printed music for publication and performance.

MUS 4054 - Instrumentation

Units: 4

Study of the instruments of the orchestra and band; scoring for small ensembles; survey of scoring for school orchestra, band, and chorus. **Prerequisites:** *MUS 2033*.

MUS 4074 - Orchestration I

Units: 4

Scoring and arranging for smaller combinations of Western classical music forces such as string quartet, wind quintet, and other combinations of acoustic instruments in small ensembles. Overview of the development of the orchestra from the baroque to classical periods. **Prerequisites:** MUS 2033, MUS 4054. **Grading:** A-F grading only.

MUS 4075 - Orchestration II

Units: 4

Continuation of MUS 4074. Scoring for larger combinations of Western classical music forces such as string orchestra, wind ensemble, and orchestra. Overview of the development of the orchestra from the romantic period to now. **Prerequisites:** MUS 2033, MUS 4074. **Grading:** A-F grading only.

MUS 4077 - Jazz Arranging for Large Ensemble

Units: 4

Focus on arranging and orchestration techniques for large jazz ensemble. Study of ensemble scores from the jazz masters and the use of doublings, mutes, voicings, upper-structure triads, and linear harmonization to arrange and compose for big band. **Prerequisites:** MUS 2033, MUS 3037. **Grading:** A-F grading only.

Music: Theory: Graduate

MUS 6015 - Analysis of Musical Styles I

Units: 3

Analysis of compositional styles from chant to present-day music. Compositional principles are derived from the music with results then generalized according to composer and period. **Prerequisites:** MUS 3034 or consent of instructor.

MUS 6016 - Analysis of Musical Styles II

Units: 3

Analysis of compositional styles from chant to present-day music. Compositional principles are derived from the music with results then generalized according to composer and period. **Prerequisites:** MUS 3034 or consent of instructor.

Nursing

NURS 2002 - Success in Nursing

Units: 2

Learning strategies for the applied science of nursing. Written and oral communication activities relevant to nursing major courses. **Prerequisites:** Departmental permission. **Repeatability:** May be repeated two times for credit, for a maximum of 4 units. **Grading:** CR/NC grading only.

NURS 2005 - Clinical Pathophysiology

Units: 4

Mechanisms of disease with implications for recognition and clinical management. **Prerequisites:** *BIOL 2010 (or BIOL 2011) and BIOL 2020 or equivalent.* **Grading:** A-F grading only.

NURS 2010 - Principles of Nutrition and Medical Nutrition Therapy

Units: 4

Functions and sources of nutrients. Health disorders caused by lack or excess of nutrients. Nutritional needs throughout the life cycle. Specialization and career opportunities of nutritionists and dietitians. Concepts of medical nutrition therapy and basis of nutritional assessment. **Grading:** A-F grading only.

NURS 2015 - Pharmacology

Units: 3

Introduction to pharmacotherapeutics. **Prerequisites:** *BIOL 2020, BIOL 2025; NURS 2020.* **Grading:** A-F grading only.

NURS 2020 - Introduction to Contemporary Nursing

Units: 4

Introduction to contemporary issues in nursing. Concepts and principles used in design/delivery of nursing care to promote client adaptation. Examination of nursing as a profession. **Prerequisites:** *Department permission; BIOL 2010 (or BIOL 2011), BIOL 2020, BIOL 2025; CHEM 1601 (or CHEM 1605), CHEM 1602; COMM 1000 or COMM 1004; ENGL 1001; PHIL 1000 or PHIL 1001 or equivalent; STAT 1000.* **Co-requisites:** *BIOL 2021, NURS 2022.* **Grading:** A-F grading only.

NURS 2021 - Nursing Support of Community-Based Clients

Units: 2

Provision of nursing support to well clients living in the community. Health screening/assessment, client teaching included. **Prerequisites:** *Department permission; BIOL 2010 (or BIOL 2011), BIOL 2020, BIOL 2025; CHEM 1601 (or CHEM 1605), CHEM 1602; COMM 1000 or COMM 1004; ENGL 1001; PHIL 1000 or PHIL 1001 or equivalent; STAT 1000.* **Co-requisites:** *NURS 2020, NURS 2022.* **Grading:** CR/NC grading only.

NURS 2022 - Level I Nursing Skills I

Units: 2

Prerequisites: *Department permission.* **Co-requisites:** *NURS 2020, NURS 2021.* **Grading:** CR/NC grading only.

NURS 2030 - Nursing Care of Adults I

Units: 4

Nursing care delivery for patients and families experiencing mild to moderate alteration in health/function. Concepts and principles necessary to anticipate, identify, and meet universal

biopsychosocial adaptation needs for nursing in healthcare context. **Prerequisites:** *Department permission; NURS 2010, NURS 2020, NURS 2021, NURS 2022; PSYC 1000 (or PSYC 1001 or PSYC 1005).* **Co-requisites:** *NURS 2031, NURS 2032.* **Grading:** A-F grading only.

NURS 2031 - Care of Adults I Practicum

Units: 2

Prerequisites: *Department permission; NURS 2010, NURS 2020, NURS 2021, NURS 2022; PSYC 1000 (or PSYC 1001).* **Co-requisites:** *NURS 2030, NURS 2032.* **Grading:** *CR/NC grading only.*

NURS 2032 - Basic Physical Assessment

Units: 2

Physical assessment skills necessary to provide professional nursing care. **Prerequisites:** *Department permission; NURS 2010, NURS 2020, NURS 2021, NURS 2022; PSYC 1000 (or PSYC 1001 or PSYC 1005).* **Co-requisites:** *NURS 2030, NURS 2031.* **Grading:** *CR/NC grading only.*

NURS 2040 - Nursing Care of Adults II

Units: 4

Continuation of Nursing Care of Adults I. Nursing care to support patients and families experiencing mild to moderate alteration in health/function. Theories and principles necessary to anticipate, identify, meet biopsychosocial needs in selected pathophysiologic states. **Prerequisites:** *Department permission; NURS 2015, NURS 2030, NURS 2031, NURS 2032; SOC 1000 (or SOC 1002) or ANTH 1000 or ANTH 1300.* **Co-requisites:** *NURS 2041, NURS 2042.* **Grading:** A-F grading only.

NURS 2041 - Care of Adults II Practicum

Units: 3

Prerequisites: *Department permission; NURS 2015, NURS 2030, NURS 2031, NURS 2032; SOC 1000 (or SOC 1002) or ANTH 1000 or ANTH 1300.* **Co-requisites:** *NURS 2040, NURS 2042.* **Grading:** *CR/NC grading only.*

NURS 2042 - Level I Nursing Skills II

Units: 1

Prerequisites: *Department permission; NURS 2015, NURS 2030, NURS 2031, NURS 2032; SOC 1000 (or SOC 1002) or ANTH 1000 or ANTH 1300.* **Co-requisites:** *NURS 2040, NURS 2041.* **Grading:** *CR/NC grading only.*

NURS 3001 - Level II Nursing Skills I

Units: 1

Prerequisites: *Department permission; NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042.* **Grading:** A-F grading only.

NURS 3002 - Level II Nursing Skills II

Units: 1

Prerequisites: Department permission; NURS 3001 and NURS 3201. **Grading:** A-F grading only.

NURS 3003 - Level II Nursing Skills III

Units: 1

Prerequisites: Department permission; NURS 3002. **Grading:** A-F grading only.

NURS 3200 - Current Issues in Professional Nursing

Units: 1

Discussion and presentation of a variety of current issues in nursing. May include: violence in the workplace, international opportunities in research and service, current research projects, strategies for job searches. **Prerequisites:** Completion of Level I Nursing curriculum. **Co-requisites:** Concurrently registered as a Level II, III or RN-BSN student in the CSUEB Nursing Program. **Repeatability:** May be repeated three times for credit for a maximum of 4 units. **Grading:** CR/NC grading only.

NURS 3201 - Patients and Families with Complex Needs

Units: 4

Concepts and principles from nursing and behavioral sciences applied to care of acutely ill patients and their families. Concepts and theories addressed include role, adaptation, communication, teaching/learning, systems and research. **Prerequisites:** NURS 2040, NURS 2041, and NURS 2042; HDEV 3800 or PSYC 4420; department permission. **Grading:** A-F grading only.

NURS 3202 - Nursing Leadership

Units: 4

Integration of traditional leadership and management theory with contemporary healthcare issues, nursing trends, and practice applications. May be taken concurrently with NURS 3402-NURS 3413 or with NURS 3509 **Prerequisites:** Department permission; NURS 3001, NURS 3002, NURS 3201, NURS 3401. **Grading:** A-F grading only.

NURS 3401 - Legal Responsibilities of Health Care Providers

Units: 2

Overview of American legislative and judicial system and its effect on consumer health care. The professional nurse is viewed as an advocate of clients as consumers of health care. **Prerequisites:** NURS 3201; department permission. **Grading:** A-F grading only.

NURS 3402 - Nursing Care of Adults III

Units: 1

Nursing care of patients with complex illness requiring surgery. Principles from nursing, natural, and behavioral sciences to anticipate, identify, and meet nursing needs of patients and their families. May be

taken concurrently with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Grading:** A-F grading only.

NURS 3403 - Nursing Care of Adults III Practice

Units: 2

May be taken concurrently with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Co-requisites:** NURS 3402. **Grading:** CR/NC grading only.

NURS 3404 - Care of Childbearing Families

Units: 1

Nursing care of families during childbearing including normal and high-risk conditions. Principles from nursing, natural, and behavioral sciences to anticipate, identify, and meet nursing needs. May be taken concurrently with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Grading:** A-F grading only.

NURS 3405 - Childbearing Family Practice

Units: 2

May be taken concurrently with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Co-requisites:** NURS 3404. **Grading:** CR/NC grading only.

NURS 3406 - Care of Clients with Psychiatric/Mental Health Needs

Units: 1

Theories of human behavior and the purposeful use of self provide a theoretical framework for psychiatric and mental health care of clients and their families. May be taken concurrently with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Grading:** A-F grading only.

NURS 3407 - Psychiatric/Mental Health Nursing Practicum

Units: 2

May be taken concurrently with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Co-requisites:** NURS 3406. **Grading:** CR/NC grading only.

NURS 3408 - Nursing Care of Childrearing Families

Units: 1

Care of families and children with emphasis on acute illness, health promotion, and growth and development. Physiologic, and psychosocial aspects of care are addressed. May be taken concurrently

with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Grading:** A-F grading only.

NURS 3409 - Childrearing Family Practice

Units: 2

May be taken concurrently with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Co-requisites:** NURS 3408.

NURS 3410 - Nursing Care of Adults IV

Units: 1

Nursing care of patients with acute, complex illness requiring medical intervention. Principles from nursing, natural, and behavioral sciences to anticipate, identify, and meet nursing needs of patients and their families. May be taken concurrently with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Grading:** A-F grading only.

NURS 3411 - Nursing Care of Adults IV Practice

Units: 2

May be taken concurrently with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Co-requisites:** NURS 3410. **Grading:** CR/NC grading only.

NURS 3412 - Nursing Care of Elder Adults

Units: 1

Nursing care of elders with acute, complex illness. Principles from nursing, natural, and behavioral sciences to anticipate, identify, and meet nursing needs of patients and their families. May be taken concurrently with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Grading:** A-F grading only.

NURS 3413 - Care of Elder Adults Practice

Units: 2

May be taken concurrently with NURS 3201. **Prerequisites:** NURS 2005, NURS 2010, NURS 2015, NURS 2040, NURS 2041, NURS 2042, NURS 3201; department permission. **Co-requisites:** NURS 3412. **Grading:** CR/NC grading only.

NURS 3502 - Continuum of Care

Units: 2

Models of nursing case management. Facilitation of safe, efficient transitions across the continuum of care. Consideration of constraints imposed by healthcare payors. Nursing interventions of anticipation, planning, teaching and advocacy. **Prerequisites:** Department permission; NURS 2005, NURS 2010, NURS 3201. **Grading:** A-F grading only.

NURS 3503 - Advanced Physical Assessment

Units: 3

Physical assessment of adults for experienced Registered Nurses. **Prerequisites:** *Department permission required. Open only to R.N. students enrolled in the Nursing major.* **Grading:** A-F grading only.

NURS 3505 - Advanced Principles I

Units: 4

Advanced concepts of professional role, systems, change, and academic writing. Examination of evidence based practice resources. Must have current California R.N. Licensure. Open only to R.N. students enrolled in the Nursing major. **Prerequisites:** *Department permission; BIOL 2010 (or BIOL 2011), BIOL 2020, BIOL 2025; CHEM 1601 (or CHEM 1605), CHEM 1602; COMM 1000 or COMM 1004; ENGL 1001; PHIL 1000 or PHIL 1001 or equivalent; STAT 1000.* **Grading:** A-F grading only.

NURS 3507 - Advanced Principles II

Units: 4

Continuum of care as it applies to patients with complex illness. Adaptation and nursing process incorporated into nursing interventions to facilitate patient transitions. **Prerequisites:** *NURS 3505. Open only to R.N. students enrolled in the Nursing major.* **Grading:** A-F grading only.

NURS 3509 - Advanced Principles III

Units: 4

Effects of hospitalization on patients and families. Exploration of nursing interventions related to theories of aging and illness role. Nursing research critique. **Prerequisites:** *NURS 3507. Open only to R.N. students enrolled in the Nursing major.* **Grading:** A-F grading only.

NURS 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; department approval of activity.* **Repeatability:** May be repeated for credit, for a maximum of 8 units. Not for credit in the Nursing major. **Grading:** *CR/NC grading only.*

NURS 3999 - Issues in Nursing

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in nursing. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

NURS 4203 - Research Utilization

Units: 2

Critique of quantitative and qualitative nursing research with implications for clinical practice. Use of evidence-based practice resources to facilitate research utilization. **Prerequisites:** *Department permission; all 3000-level NURS courses; RN Advanced Placement option--NURS 3509.* **Grading:** A-F grading only.

NURS 4206 - Nursing Care of the Adult with Critical Illness

Units: 2

Nursing care of critically ill adult patients. Exploration of advanced therapeutic interventions and principles of critical thinking skills in managing patients with multi-system disorders. **Prerequisites:** *Completion of NURS 2005 with a grade of B or better and consent of instructor.* **Co-requisites:** *Concurrently registered as a Level III or RN-BSN student in the CSUEB Nursing Program.*

NURS 4207 - Principles of Community Health Nursing

Units: 2

Community-oriented, population-focused approaches to health promotion, disease prevention. Core functions of public health and nursing applied to individuals, aggregates and communities at risk for development of health problems. **Prerequisites:** *Department permission; all 3000-level Nursing courses; RN Advanced Placement option-- NURS 3509.* **Grading:** A-F grading only.

NURS 4208 - Practicum of Community Health Nursing

Units: 4

Prerequisites: *Department permission; all 3000-level Nursing courses; RN Advanced Placement option--NURS 3509.* **Co-requisites:** *NURS 4207. Open only to students enrolled in the Nursing major.* **Grading:** CR/NC grading only.

NURS 4301 - Preceptorship Seminar

Units: 2

Preceptored course that promotes professional role transition through guided independence in professional nursing practice. Leadership/management concepts applied to contemporary professional practice issues. **Prerequisites:** *Department permission; all 3000-level nursing courses; RN Advanced Placement option--NURS 3509.* **Grading:** A-F grading only.

NURS 4302 - Preceptorship Practicum

Units: 8

Prerequisites: *Department permission; all 3000-level nursing courses; RN Advanced Placement option--NURS 3509.* **Co-requisites:** *NURS 4301. Open only to students enrolled in the Nursing major.* **Grading:** CR/NC grading only.

NURS 4305 - Preceptorship Practicum for the RN-BSN Student

Units: 4

Prerequisites: Department permission; NURS 3509. **Co-requisites:** NURS 4301. Open only to RN-BSN students.

Grading: CR/NC grading only.

NURS 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Philosophy

PHIL 1000 - Workshop in Clear Thinking

Units: 4

Development of clarity and focus in thinking, with attention to rigor, modes of explanation, validity of reasoning, etc.

PHIL 1001 - Introduction to Logic

Units: 4

Beginning study of the forms of valid inference, including informal fallacies, syllogistic logic and symbolic logic.

PHIL 1005 - Viewing Diversity

Units: 4

Introduction to the philosophical treatment of diversity and race. Topics may include the social contract, the social construction of race, reparations, the effects of racial classification, social inequality, the relationship of contemporary social and political issues to race.

PHIL 1102 - Issues in Environmental Ethics

Units: 4

Critical examination of ethical issues in environmental philosophy. Topics may include: the impact of human activity on environmental systems, climate change, loss of biodiversity, sustainable practices, and intergenerational justice. **Credit Restrictions:** Not open to students with credit for PHIL 1103 or PHIL 1104.

PHIL 1103 - Science, Ethics, and Technology

Units: 4

The ethical implications of various technologies, such as biotechnology, medical technologies, environmental technologies, and informational technologies. **Credit Restrictions:** Not open to students with credit for PHIL 1102 or PHIL 1104.

PHIL 1104 - The Philosophy of Environmental Science and Policy

Units: 4

Study of issues related to the morality and justification of environmental science as a source of knowledge and guide to human action. Topics include: scientific disagreement, whose interests should concern us, and what should influence our evaluation of government policies. **Credit Restrictions:** Not open to students with credit for PHIL 1102 or PHIL 1103.

PHIL 1201 - Introduction to Ancient Philosophy

Units: 4

Introduction to ancient philosophy and the origin of Western philosophy through primary texts. Topics may include the good life, mythology, the natural world, justice, knowledge, and reality.

PHIL 1302 - Philosophy of Self and Society

Units: 4

Overview of Western social and political philosophy including feminist critiques and multicultural perspectives. Discussion of human nature, the good life, political economy, rights, justice, power, and oppression. Schools of thought include classical liberalism, libertarianism, socialism, communitarianism, and pragmatism.

PHIL 1303 - Introduction to the Philosophy of Art

Units: 4

Introduction to aesthetics through artistic forms such as music, visual art, and literature. Topics may include expression, representation, and creativity, as well as questions exploring what constitutes a work of art and the role of the artist.

PHIL 1401 - Religions of the World

Units: 4

Comparative study of religions from around the world, such as Hinduism, Buddhism, Taoism, Judaism, Christianity and Islam.

PHIL 2001 - Introduction to Philosophy

Units: 4

Major themes, thinkers and methods in philosophy. Topics include the history of philosophy, the nature of philosophical questioning, God, reality, truth and the self.

PHIL 2002 - Introduction to Ethics

Units: 4

Introduction to philosophical ethics. Topics include major ethical theories, virtue, vice, evil, character, moral education and relativism. Impact of cultural diversity on ethical discourse.

PHIL 2003 - Introduction to Judaism, Christianity, and Islam

Units: 4

Covers the three Abrahamic faiths: Judaism, Christianity, and Islam. Students will learn about each tradition's historical development and the specific beliefs of each, in addition to the relationships between these faiths and the sources of conflict.

PHIL 2040 - Early Modern World Philosophies

Units: 4

Evolution of religious and philosophical traditions of early modern Europe, Middle East, and Asia. Impact of Islam on Judeo-Christian thought; philosophical debates regarding conquest and colonization of the Americas; changing perspectives on race and gender; the Enlightenment in global perspective.

PHIL 2605 - Introduction to Asian Religion

Units: 4

Introduction to Buddhism as it has appeared in India, Southeast Asia, and Japan within the context of related religions including Hinduism, Shinto and the religions of China. **Credit Restrictions:** Not open to students with credit for PHIL 1605 or PHIL 3403.

PHIL 3002 - Modern Logic

Units: 4

Advanced course in symbolic logic. Students without a mathematical background are encouraged to first take PHIL 1001.

PHIL 3010 - Critical Legal Reasoning

Units: 4

Development of ability to think clearly and rationally with focus on legal reasoning. Argument by analogy, use of precedent, interpretation of court opinions, and LSAT preparation.

PHIL 3100 - Ethics

Units: 4

Major theories about ethics or morality and their relation to different social systems, institutions and cultures of the world.

PHIL 3151 - Environmental Ethics

Units: 4

Philosophical conceptions of nature and the environment, and human responsibilities towards it, drawn from different historical and cultural traditions.

PHIL 3152 - Biomedical Ethics

Units: 4

Ethical issues in biology and medicine, such as euthanasia, abortion, truth-telling, genetic engineering, cloning, distribution of medical resources.

PHIL 3153 - Biology and Ethics

Units: 4

Conceptual and ethical issues arising from new developments in biology. Topics may include cloning, genetic engineering, biodiversity, the evolution/creation debate. Satisfies GE Area: C4

PHIL 3161 - Philosophy and Sex

Units: 4

A philosophical examination of conceptual and ethical issues raised by sexuality and sexual love. Possible topics include love and sexuality, promiscuity, prostitution, adultery, homosexuality, sexual harassment, pornography, and same-sex marriage.

PHIL 3201 - Aesthetics

Units: 4

Theories of art, such as imitation, formalism and expressionism; the contrast between representational and abstract art.

PHIL 3216 - Philosophy and Science Fiction

Units: 4

Philosophical views about topics contained implicitly in science fiction writing and film.

PHIL 3230 - Art and Philosophy of the East

Units: 4

An interdisciplinary investigation of the relationship between art and philosophy of Asia, with particular emphasis on Hinduism and Buddhism. Team taught by faculty from the Art and Philosophy departments.

Cross-listed: ART 3230.

PHIL 3301 - Theory of Knowledge

Units: 4

An exploration of such issues as skepticism, relativism, truth, and the nature of understanding.

Repeatability: May be repeated once for credit when content varies, for a maximum of 8 units.

PHIL 3305 - Fundamental Questions: Self, Nature, and God

Units: 4

Topics such as the mind-body problem, freedom versus determinism, and the nature of truth, faith, and reason.

PHIL 3311 - Metaphysics

Units: 4

An exploration of the nature of matter, mind, space, time, truth, and the real. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

PHIL 3321 - Philosophy of the Human Sciences

Units: 4

Philosophical study of theories, methods and problems in the social and behavioral sciences.

Repeatability: May be repeated once for credit when content varies, for a maximum of 8 units.

PHIL 3322 - Philosophy of Language

Units: 4

An exploration of fundamental issues concerning language and discourse, such as truth, communication, meaning, representation, understanding, metaphor, and irony.

PHIL 3332 - Philosophy of Science

Units: 4

The nature of scientific explanation, scientific methods, and conceptual revolutions in science. How to distinguish between science, non-science, and pseudoscience. Discussion of whether the scientific method is a superior and more objective means of determining truth, as compared to religion and other systems of thought.

PHIL 3335 - Science, Technology and Values

Units: 4

Nature of scientific reasoning and its relation to technology. Historical development of modern technology. Examples of technological systems: communications, data processing, materials, energy generation. Impact on the environment and on human society. Relation to moral reasoning. **Cross-listed:** SCI 3335.

PHIL 3341 - Philosophy of Cognition and Artificial Intelligence

Units: 4

Philosophical study of the nature of cognition and of human and machine intelligence. Explores such questions as: "What is thinking?" "What is intelligence?" "Can computers understand ordinary language?" Recent trends and prospects of the quest for truly intelligent machines.

PHIL 3344 - Science and Religion

Units: 4

Nature of science and of religion. Apparent conflict between science, religion, and magical thinking. Distinction between facts and values. Discussion of issues such as whether creationism and intelligent design are viable alternatives to the theory of evolution.

PHIL 3400 - Philosophy of Religion

Units: 4

Philosophical issues such as the existence of God, the problem of evil, the paradox of free will, the nature of religious experience and mysticism. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

PHIL 3401 - Contemporary Religious Thinkers

Units: 4

The religious philosophies of one or more major thinkers of the Twentieth Century from different cultures or religious traditions of the world. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

PHIL 3403 - Religions of the East

Units: 4

Survey of Eastern religious thought and practice as expressed in the traditions of Confucianism, Taoism, Hinduism, Buddhism, and others. **Credit Restrictions:** Not open to students with credit for PHIL 1605 or PHIL 2605.

PHIL 3404 - Mysticism

Units: 4

Survey of mysticism in religions including Judaism, Christianity, Islam, Hinduism, Buddhism, and Taoism. Readings may include works from William James, Rudolph Otto, Carl Jung, Stephen Katz, and Walter Stace, and mystical texts from world religions.

PHIL 3410 - Comparative Themes in Eastern and Western Philosophy

Units: 4

Critical and comparative study of themes from Western philosophy and from Indian, Chinese and other

Eastern philosophies. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

PHIL 3411 - Judaism

Units: 4

Study of Judaism, its beliefs and practices; Jewish identity through its history and evolution; including readings from the Hebrew Bible, the Talmud, Kabbalah, and other core Jewish texts.

PHIL 3417 - Islam

Units: 4

Study of Islam, its beliefs and practices; history and evolution, including readings from the Quran, the Hadith, and other core Islamic texts.

PHIL 3421 - Atheism, Agnosticism, and Theism

Units: 4

Philosophical examination of atheism, agnosticism, belief in God, and the reasons, if any, for these three positions. Topics may also include morality, humanism, nihilism, science and religion, the meaning of life, and the nature of spirituality.

PHIL 3430 - The Bible in Film

Units: 4

Introduction to biblical themes and how these themes are variously interpreted within both Judaism and Christianity, and in popular culture and film. Students will watch films depicting biblical stories, discussing the ways they relate to actual biblical accounts.

PHIL 3431 - Cults, New Religious Movements

Units: 4

Introduction to many new religions including Scientology, Wicca, and the Peoples' Temple. Students will learn their origins and how they grow and perpetuate their beliefs. Definitions of "cults" and characteristics of members and leaders are also covered.

PHIL 3432 - Religion, Monsters, and Horror

Units: 4

Examination of monsters as they appear in the world's religions. Discussion of the nature of evil, the fear of death, and the experience of the uncanny. References include religious scriptures, folklore, and popular culture.

PHIL 3433 - Views of the Afterlife

Units: 4

Overview of the beliefs in life after death found in the world's religions. Examination of the experiences of those who feel they have had a brush with the dead or with death itself.

PHIL 3502 - Social and Political Philosophy

Units: 4

Intensive study of the philosophical theories underlying or justifying public policy issues, such as individual freedom and government protection of the rights of others; freedom of speech and religious, racial or sexual prejudice; affirmative action and reverse discrimination; and violence, personal responsibility and the roots of social injustice.

PHIL 3503 - Philosophy of Law

Units: 4

Introduction to the main schools of jurisprudence and legal philosophy. **Cross-listed:** POSC 3503.

PHIL 3510 - Human Rights and Social Justice: Cultural Groups and Women in the U.S.

Units: 4

Philosophical perspectives on human rights and social justice as they apply to the lived experiences of cultural groups and women in the U.S.

PHIL 3511 - Philosophy of Human Rights and Global Justice

Units: 4

Explores human rights theory and its global application from a philosophical perspective. Considers whether the following concepts can be applied globally: the nature of rights, individualism, liberalism, the social contract, cosmopolitanism, postmodernity, multiculturalism, materialism, and the nature of power.

PHIL 3515 - Race and Social Justice

Units: 4

A philosophical examination of race, racism, racial identity and experience, through the narratives of U.S. cultural groups. Possible topics include race as an epistemological and ethical category, racism, racial identity formation, and how to secure social justice.

PHIL 3543 - Evil

Units: 4

Survey of traditional and contemporary philosophical debates on the nature, origin, and existence of evil. Topics may include cruelty, genocide, torture, war, slavery.

PHIL 3560 - Business and Professional Ethics

Units: 4

Team-taught by a philosopher and a social scientist. Explores current ethical issues in business and other professions: preferential hiring vs. equal opportunity, environmental regulation vs. property rights, truthfulness in business communications, economic efficiency vs. social responsibility. **Cross-listed:** MGMT 3560.

PHIL 3601 - Ancient and Medieval Philosophy

Units: 4

Western philosophy from the ancient Greeks (including Socrates, Plato and Aristotle) through the philosophers and theologians of the Middle Ages (including St. Augustine and St. Thomas Aquinas).

PHIL 3602 - Modern Philosophy

Units: 4

Seventeenth and eighteenth century Western philosophy, especially rationalism (Descartes, Spinoza, Leibniz) and empiricism (Locke, Berkeley, Hume).

PHIL 3603 - Thinkers of the Enlightenment

Units: 4

Themes stemming from the Enlightenment such as autonomy, critique, and idealism in philosophers from Kant to Hegel.

PHIL 3604 - Roots of Contemporary Philosophy

Units: 4

Study of one or more twentieth century philosophical traditions, such as logical positivism, analytic philosophy (including Wittgenstein), pragmatism, existentialism, phenomenology, process philosophy, the Frankfurt School. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

PHIL 3605 - Studies in Contemporary Philosophy

Units: 4

Various figures or topics in contemporary philosophy. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

PHIL 3701 - Philosophy of Education

Units: 4

Philosophical examination of educational theories and of their applications in various cultural and social contexts.

PHIL 3720 - Feminist Philosophy

Units: 4

Major themes, theories, and different schools of feminist philosophy; the influences of Marxism, psychoanalysis, existential phenomenology, postmodernism, and theories of difference, with special reference to American feminist thought.

PHIL 3721 - African-American Philosophical Perspectives

Units: 4

A philosophical examination of social, cultural, and political issues relating to African-Americans primarily from the perspective of African-American philosophers. Topics, both historical and contemporary, may include alienation, self-respect, and black feminist thought. **Cross-listed:** ES 3721.

PHIL 3925 - Contemporary Ethical Issues

Units: 4

An examination of ethics as applied to issues of current concern. May include discussion of abortion, affirmative action, animal rights, euthanasia, torture, and the death penalty.

PHIL 3999 - Issues in Philosophy

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in philosophy.

Repeatability: May be repeated once for credit when content varies, for a maximum of 8 units.

PHIL 4606 - Seminar in Philosophy

Units: 4

Intensive study of an individual philosopher, school, movement or problem in philosophy.

PHIL 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Physics

PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations

Units: 5

All major fields of physics are covered in this sequence. This sequence is designed for physics, physical science, Geology, B.S., and Chemistry, B.S. majors. *Note: Each course is a prerequisite of the one following.*

Prerequisites: MATH 1304, MATH 1305, MATH 2304. **Co-requisites:** MATH 1304, MATH 1305, MATH 2304.

PHYS 1002 - General Physics: Thermodynamics and Optics

Units: 5

All major fields of physics are covered in this sequence. This sequence is designed for physics, physical science, Geology, B.S., and Chemistry, B.S. majors. **Prerequisites:** PHYS 1001; MATH 1304, MATH 1305, MATH 2304. **Co-requisites:** MATH 1304, MATH 1305, MATH 2304.

PHYS 1003 - General Physics: Electromagnetism

Units: 5

All major fields of physics are covered in this sequence. This sequence is designed for physics, physical science, Geology, B.S., and Chemistry, B.S. majors. **Prerequisites:** PHYS 1002; MATH 1304, MATH 1305, MATH 2304. **Co-requisites:** MATH 1304, MATH 1305, MATH 2304.

PHYS 1021 - General Physics Supplemental Instruction

Units: 0.5

Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent physics course (PHYS 1001). **Co-requisites:** *PHYS 1001*. **Credit Restrictions:** Not for credit in PHYS major. **Grading:** *CR/NC grading only*.

PHYS 1022 - General Physics Supplemental Instruction

Units: 0.5

Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent physics course (PHYS 1002). **Co-requisites:** *PHYS 1002*. **Credit Restrictions:** Not for credit in PHYS major. **Grading:** *CR/NC grading only*.

PHYS 1023 - General Physics Supplemental Instruction

Units: 0.5

Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent physics course (PHYS 1003). **Co-requisites:** *PHYS 1003*. **Credit Restrictions:** Not for credit in PHYS major. **Grading:** *CR/NC grading only*.

PHYS 1200 - Behind the Music

Units: 4

This course offers a basic introduction to the physical properties of sound waves. The focus will be on developing a scientific framework in which to understand how different musical instruments produce a variety of sounds. **Credit Restrictions:** Not for credit in Physics major.

PHYS 1410 - Physics for Future Leaders

Units: 4

Essential physics to be president, politician, lawyer, football coach, or any other profession. Provides information required to make an informed decision regarding issues that may have technical

components. Topics include energy, radioactivity, fission, fusion, spy satellites, and medical imaging. Satisfies GE Area: B1, Physical sciences; B5, Science elective. **Credit Restrictions:** Not for Physics major/minor credit.

PHYS 1500 - How Things Work

Units: 4

A conceptual look at how popular and common things work, what they mean in an everyday way, and how they all fit together in one working unit. **Credit Restrictions:** Not open to students with credit for PHYS 1700; Not for credit in Physics major.

PHYS 1700 - Elementary Physics

Units: 4

A non-mathematical survey of the basic physical laws (rules) of nature with emphasis on the origin, meaning, significance, and limitations of these laws. Topical areas include mechanics, wave motion, electricity and magnetism, heat and thermodynamics, relativity, quantum theory, and elementary particle theory. **Credit Restrictions:** Not open to students with credit for PHYS 1500; Not for credit in Physics major.

PHYS 1780 - Elementary Physics Laboratory

Units: 1

A lab designed to accompany PHYS 1700 and to introduce students to some equipment used in physics. The experiments are hands-on activities in mechanics, wave motion and sound, temperature and heat, electricity, light, and radioactivity. **Credit Restrictions:** Not for credit in Physics major.

PHYS 1800 - Astronomy

Units: 4

A descriptive survey of astronomy, astrophysics, and cosmology. Emphasis is on the physical nature and evolution of galaxies, stars, and planets. **Credit Restrictions:** Not open to students with credit for PHYS 1600; Not for credit in Physics major.

PHYS 1810 - Astronomy of Ancient Cultures

Units: 4

Exploration of the astronomical techniques, tools, and theories used by ancient cultures from around the world to understand the sky. Projects and discussions investigate the astronomy, cosmology, and timekeeping practices of ancient people (such as Aztecs, Mayans, Native Americans, Chinese, Greeks, and Egyptians). Connections to the modern understanding of astronomy and cosmology are drawn throughout the course. Satisfies GE Area: B1, Physical sciences; B5, Science elective. **Credit Restrictions:** Not for Physics major/minor credit.

PHYS 1880 - Astronomy Laboratory

Units: 1

A lab designed to accompany PHYS 1800 and PHYS 3700. Experiments are hands-on activities involving positions and motions of the moon, planets, and stars. Some night observations are included. **Credit**

Restrictions: Not for credit in Physics major.

PHYS 2004 - General Physics

Units: 5

A continuation of the General Physics sequence (PHYS 1001, PHYS 1002, PHYS 1003) focusing on modern physics: relativity, quantum mechanics, atomic and molecular physics, nuclear and particle physics. Course is a bridge to upper division work in the sciences, and special emphasis is placed on advanced mathematical techniques and problem-solving skills. **Prerequisites:** *MATH 2304 and PHYS 1003.*

PHYS 2005 - The Science of Energy

Units: 4

A descriptive course covering energy resources, production, and consumption in the 21st century. Energy input and output of physical systems such as household appliances and modes of transportation. **Credit**

Restrictions: Not for credit in Physics major.

PHYS 2701 - Introductory Physics: Force, Mass and Motion

Units: 4

A three-quarter sequence in general physics, designed primarily for students taking the B.S. biological sciences (including pre-professional students), Chemistry, B.A., and geology or for non-science majors requiring a good foundation in physics. Knowledge of algebra and trigonometry required. For students who are not majoring in physics. **Prerequisites:** *Trigonometry or MATH 1300.* **Credit Restrictions:** Not for credit in Physics major.

PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism

Units: 4

A three-quarter sequence in general physics, designed primarily for students taking the B.S. biological sciences (including pre-professional students), Chemistry, B.A., and geology or for non-science majors requiring a good foundation in physics. Knowledge of algebra and trigonometry required. For students who are not majoring in physics. **Prerequisites:** *PHYS 2701.* **Credit Restrictions:** Not for credit in Physics major.

PHYS 2703 - Introductory Physics: Light and Modern Physics

Units: 4

A three-quarter sequence in general physics, designed primarily for students taking the B.S. biological sciences (including pre-professional students), Chemistry, B.A., and geology or for non-science majors requiring a good foundation in physics. Knowledge of algebra and trigonometry required. For students

who are not majoring in physics. **Prerequisites:** *PHYS 2702*. **Credit Restrictions:** Not for credit in Physics major.

PHYS 2711 - Introductory Physics Supplemental Instruction

Units: 0.5

Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent physics course (PHYS 2701). **Co-requisites:** *PHYS 2701*. **Credit Restrictions:** Not for credit in PHYS major. **Grading:** *CR/NC grading only*.

PHYS 2712 - Introductory Physics Supplemental Instruction

Units: 0.5

Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent physics course (PHYS 2702). **Co-requisites:** *PHYS 2702*. **Credit Restrictions:** Not for credit in PHYS major. **Grading:** *CR/NC grading only*.

PHYS 2713 - Introductory Physics Supplemental Instruction

Units: 0.5

Student-centered discussion and problem-solving. Designed to promote understanding of key concepts and enhance student success in the concurrent physics course (PHYS 2703). **Co-requisites:** *PHYS 2703*. **Credit Restrictions:** Not for credit in PHYS major. **Grading:** *CR/NC grading only*.

PHYS 3011 - Foundational Physics

Units: 4

Covers the foundational areas of physics including motion, forces, electricity, magnetism, thermodynamics, and atomic and nuclear physics. Focuses on the California State Science Standards and prepares students to teach middle school physical science. **Prerequisites:** *PHYS 1700 and PHYS 1780*. *Recommendation: Concurrent enrollment in PHYS 3012*. **Credit Restrictions:** Not for physics major or minor credit.

PHYS 3012 - Foundational Physics Laboratory

Units: 1

Laboratory course which supplements the Foundational Physics lecture, PHYS 3011. Focuses on the California State Science Standards and prepares students to teach middle school physical science. **Prerequisites:** *PHYS 1700 and PHYS 1780*. **Co-requisites:** *Prior or concurrent enrollment in PHYS 3011, or equivalent*. **Credit Restrictions:** Not for physics major or minor credit.

PHYS 3080 - Physics Hands-on Laboratory

Units: 2

Opportunity to work with elementary and middle school students in a science teaching/learning

environment. Hands-on lessons provide early teaching experience in science for undergraduates exploring teaching as a career. Satisfies GE Area: B6. **Prerequisites:** *PHYS 1500*, *PHYS 1700*, *PHYS 1001*, or *PHYS 2701*; or consent of Instructor.

PHYS 3101 - Analytic Mechanics I

Units: 3

Review of Newtonian mechanics. Hamilton's Principle. Lagrangian and Hamiltonian formalisms, with applications. Generalized coordinates. Central forces. **Prerequisites:** *PHYS 1003*.

PHYS 3102 - Analytic Mechanics II

Units: 3

Particles and rigid bodies. Oscillations and waves. Fluids. **Prerequisites:** *PHYS 3101*; *MATH 3331*. **Co-requisites:** *MATH 3331*.

PHYS 3151 - Thermal and Statistical Physics I

Units: 3

The laws of thermodynamics, states of matter, kinetic theory, introduction to statistical mechanics. **Prerequisites:** *PHYS 1003*.

PHYS 3152 - Thermal and Statistical Physics II

Units: 3

Canonical and other ensembles. Quantum gases and phase transitions. **Prerequisites:** *PHYS 3151*; *MATH 3331*. **Co-requisites:** *MATH 3331*.

PHYS 3180 - Computational Physics

Units: 4

Computer programming and numerical techniques relevant to physics. Data acquisition and analysis. **Prerequisites:** *PHYS 1003*; *MATH 3331*. **Co-requisites:** *MATH 3331*.

PHYS 3280 - Electronics

Units: 4

Hands-on introduction to analog and digital circuits and components commonly found in laboratory electronics. **Prerequisites:** *PHYS 1003* or consent of instructor.

PHYS 3281 - Experimental Physics

Units: 4

Experiments in various fields of physics. Experimental design. Computer interfacing. Written and oral reports. Laboratory safety. **Prerequisites:** *PHYS 3280* or consent of instructor.

PHYS 3283 - Advanced Laboratory

Units: 4

Experimental projects, including optical and solid state physics topics. **Prerequisites:** *PHYS 3280*.

Repeatability: May be repeated once for credit with consent of instructor, for a maximum of 8 units.

PHYS 3301 - Quantum Mechanics I

Units: 3

Introduction to Schrodinger's equation and the mathematical formalisms of quantum mechanics.

Prerequisites: *PHYS 1003*.

PHYS 3302 - Quantum Mechanics II

Units: 3

Applications of Schroedinger's equation. Angular momentum. **Prerequisites:** PHYS 3301; MATH

3331. **Co-requisites:** MATH 3331.

PHYS 3303 - Quantum Mechanics III

Units: 3

Approximation methods and further applications of quantum mechanics. **Prerequisites:** PHYS 3302 ;

MATH 4361 . **Co-requisites:** MATH 4361.

PHYS 3700 - The Big Bang and Other Cosmologies

Units: 4

A descriptive course on the cosmological origin and evolution of the universe. Historical review of cosmological models and discussion of current theories. Stellar and galactic origin and evolution, stellar energy, the early universe, open and closed universes, and the search for extra-terrestrial life.

PHYS 3710 - Solar System Astronomy

Units: 4

Overview of the structure and evolution of the solar system. Topics include the sun, terrestrial and Jovian planets, moons, asteroids, comets, as well as the discovery of extra-solar planets and the resulting impact on our understanding of solar system formation.

PHYS 3720 - Stars and Galaxies

Units: 4

An overview of the universe with emphasis on the study of stars and galaxies. Topics include stars, stellar evolution, black holes, neutron stars, galaxies, and the role of dark matter and dark energy in galaxy formation.

PHYS 3750 - Biophysics Tools in the History of Medical Research

Units: 4

A basic introduction to major biophysics tools invented in the 20th century, how they help to amplify, aggregate and differentiate biological data, and some significant discoveries to which they have contributed. Examples are drawn from diabetes, cardiovascular, and kidney research. **Credit Restrictions:** Not for credit in Physics major.

PHYS 3875 - Mathematical Physics

Units: 4

See MATH 3875 for course description.

PHYS 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; departmental approval of activity.*

Repeatability: May be repeated for credit, for a maximum of 8 units. A maximum of 4 units will be accepted toward the physics major; a maximum of 2 units will be accepted toward the minor. **Grading:** *CR/NC grading only.*

PHYS 3999 - Issues in Physics

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in physics. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

PHYS 4001 - Electromagnetism I

Units: 3

Study of electricity and magnetism leading to Maxwell's equations in vacuum. **Prerequisites:** *PHYS 1003.*

PHYS 4002 - Electromagnetism II

Units: 3

Materials and boundary value problems. AC circuits. **Prerequisites:** PHYS 4001 ; MATH 3331 . **Co-requisites:** MATH 3331.

PHYS 4003 - Electromagnetism III

Units: 3

Electromagnetic radiation. Relativity in electromagnetism. **Prerequisites:** *PHYS 4002 ; MATH 4361* . **Co-requisites:** MATH 4361.

PHYS 4250 - Selected Topics

Units: 1-3

Various subjects and projects providing an extension of the physics curriculum. **Prerequisites:** *PHYS 1003*. **Repeatability:** May be repeated for credit, for a maximum of 3 units for any combination of PHYS 4250 and 4850.

PHYS 4600 - Solid State

Units: 3

Crystals and bonding. Waves in lattices. Electron gas and energy levels. Semiconductors and superconductors. **Prerequisites:** *PHYS 3302*.

PHYS 4700 - Modern Optics

Units: 3

Introduction to photonics. Lasers and fibers. Non-linear optics and electro-optics. **Prerequisites:** *PHYS 4002*.

PHYS 4850 - Undergraduate Research

Units: 1-3

Research leading to a formal report, under the direction of a faculty member. **Co-requisites:** *PHYS 3281 and PHYS 3283*. **Repeatability:** May be repeated for credit, for a maximum of 3 units for any combination of PHYS 4250 and 4850.

PHYS 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

PHYS 4950 - Physics Capstone

Units: 1

Comprehensive overview and synthesis of undergraduate physics. Must be taken in Spring quarter immediately preceding graduation.

Political Science

POSC 1000 - Introduction to Political Science

Units: 4

Introduction to the study of politics and government, surveying the concepts and approaches of political science.

POSC 1171 - Environmental Politics

Units: 4

The history and present status of the ideologies, interests, movements and understandings that form modern environmental policy and politics.

POSC 1201 - American Political Institutions

Units: 4

Development of political institutions and ideals in the U.S. Key elements of the political system, including the Constitution, Presidency, Congress, Courts, parties, elections, and bureaucracy. Combined with POSC 1202 meets code requirements in U.S. history, U.S. Constitution and California government.

POSC 1202 - Public Policy/California Politics

Units: 4

Issues in American public policy, focusing on contemporary controversies (environment, poverty, etc.) California state and local government. Combined with HIST 1101, HIST 3400, HIST 3540, POSC 1201, POSC 3441, or POSC 3442 meets U.S. History, Constitution and Institutions requirement.

POSC 1500 - Conflict in World Politics

Units: 4

Causes of conflict. Topics include Iraq and Desert Storm, Bosnia, the Middle East, and Third World conflicts. Analysis of foreign aggression, civil war, terrorism, ethnic struggle, nationalism, boundary disputes, military force, sanctions, peacekeeping, mediation, disaster relief, and economic aid.

POSC 2002 - The Golden State? Modern Politics, Economics and Culture in California

Units: 4

Consideration of the political, cultural and economic forces that are changing California. Focus on statewide elections and initiatives on the ballot. May be repeated once for credit when content varies, for a maximum of 8 units.

POSC 3030 - The Study of Political Science

Units: 4

History and assumptions of political science as a field; basic skills and methodology; ethics in politics, administration and law; careers; personal learning goals; portfolios; Library tour.

POSC 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. Prerequisites: at least a 2.0 GPA; departmental approval of activity.

Repeatability: May be repeated for credit, for a maximum of 8 units. A maximum of 4 units will be accepted toward the Political Science major; a maximum of 4 units will be accepted toward the Political Science minor.

POSC 3999 - Issues in Political Science

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in political science.

Repeatability: May be repeated once for credit when content varies, for a maximum of 8 units.

POSC 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

POSC 4910 - Political Science Seminar

Units: 4

Contributions of natural and social science theories, methods, results for political science; scope and method of political science; individual research on selected topics. Registration priority given to political science majors and minors. **Prerequisites:** *POSC 3030. Open to seniors only.*

Political Science: American Government and Politics

POSC 3111 - The American Presidency

Units: 4

Study of the American Presidency both historically and analytically with an emphasis on roles and powers; the struggle between the President and Congress; the leadership role of the President in government, political parties, and public opinion.

POSC 3113 - Political Internship

Units: 2-4

Practical experience on a legislative or executive staff or in a campaign organization. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

POSC 3115 - United States Congress

Units: 4

Development of the modern Congress, including 20th century reforms; Congressional power; leadership and partisanship; inter-branch relations; Congressional elections and campaign finance reform, incumbency and redistricting; the committee system.

POSC 3120 - State and Local Politics and Government

Units: 4

The structures, processes, policies, political culture and power distributions of governments of states, cities, suburbs, small towns, metropolitan areas and neighborhoods. Special reference to California and San Francisco Bay Area institutions and problems. Satisfies the California state and local government code requirement.

POSC 3130 - Urban Politics

Units: 4

Styles and structures of city government; community power studies; community control and metropolitan government; problems of crime, welfare, finance, education, pollution, planning; emphasis on the Bay Area.

POSC 3150 - Politics of California

Units: 4

Political culture, electoral systems, and public policy in California. Field trip to the California Legislature. Satisfies code requirement in California state and local government.

POSC 3300 - Voting and Public Opinion

Units: 4

Nature and causes of voter turnout and vote choice. Determinants and effects of public opinion. Methodology used for measurement and analysis of these subjects. **Prerequisites:** *STAT 1000 or 1100.*

POSC 3310 - Political Parties and Campaigning

Units: 4

Party organizations in U.S. and California, historical changes in party operations, political machines and patronage, money in politics, party labels, the differences and similarities between the major parties, minor parties, the new style of campaigns, professional campaign management firms, the prospects for reform.

POSC 3330 - Interest Groups, Lobbying, and Political Reform

Units: 4

Private power and American public policy; the nature and sources, strategy and tactics of pressure group power in the American political process. Business, labor, agriculture, the professions, minority groups, and religion as organized groups influencing political decision making.

POSC 3333 - Ethnic and Minority Politics

Units: 4

Contemporary and historic analysis of ethnic and minority participation in the political process. Voting,

elections, interest groups, political machines, office holders, activists, strategies, and common participatory patterns. **Cross-listed:** ES 3333.

POSC 3335 - African American Politics

Units: 4

The role of African Americans in state and national politics; political history of African Americans in American politics, public policy issues concerning African Americans, successes and failures of African American empowerment strategies, and electoral impact of African American votes. **Grading:** A-F grading only.

POSC 3336 - Asian American Politics

Units: 4

The role of Asian Americans in state and national politics; political history of Asian Americans in American politics, public policy issues concerning Asian Americans, successes and failures of Asian American empowerment strategies, and electoral impact of Asian American votes. **Grading:** A-F grading only.

POSC 3340 - Women and Politics

Units: 4

Public policy relating to American women; impact of the women's movement on public policy and political behavior; women as voters, political activists, political office-holders; the function of sex roles in the political system.

POSC 3360 - Culture and Politics in the United States

Units: 4

How political personality is formed by cultural experience in the U.S. Influences such as generational effects, gender, region, ethnicity and sexual identity. News reporting, literature, movies and television as sources of the development of political personality.

POSC 3375 - Practical Politics

Units: 4

Professional skills in winning elections and influencing policy. Reading and practice in framing issues, political strategy, campaign management, advertising, polling, speech writing, media relations, Internet use, fund-raising, litigation, lobbying, building and sustaining support.

Political Science: Comparative Government and Politics

POSC 3201 - Political Systems of Western Europe

Units: 4

The governments and politics of Great Britain, France, Germany, and other Western European nations. Development and expansion of the European Union.

POSC 3204 - Political Systems of Asia

Units: 4

An analysis of politics in selected Asian countries. The degree of emphasis on particular countries and areas such as China, India, Japan, and Southeast Asia varies.

POSC 3230 - Government and Politics in the Middle East

Units: 4

Introduction to the study of contemporary politics in the Middle East. Comparative approach, analyzing the political, social, religious and economic aspects of the area.

POSC 3260 - Government and Politics of Africa South of the Sahara

Units: 4

The governments of the nations of Africa south of the Sahara, with special reference to comparative colonial policies, nationalist movements, political parties, and the problems of nation building; comparative economic systems and the role of the military.

POSC 3280 - Political Systems of Latin America

Units: 4

Political development, instability, and revolution in a comparative framework. Case studies of political development in major countries; group conflicts, ideology, administrative problems, and the role of violence.

POSC 3290 - Comparative Law

Units: 4

Examination of essential features of law and their impact upon society using a comparative method. Incorporation of comparative legal theory of various legal systems, and how legal institutions express diverse civilizations.

Political Science: International Relations

POSC 3500 - World Problems and Global Response

Units: 4

Arms control, human rights, development, debt, women's rights, world population, environmental protection, and technology transfers. Analysis of key actors (United Nations, specialized agencies,

national governments, non-governmental organizations) and policy alternatives. Student opportunity to work with local organizations.

POSC 3505 - American Foreign Policy

Units: 4

National security, economic and development assistance policies since World War II. Current policy choices and the constitutional conflict between Congress and the President. Role of the State Department, the military, the CIA, and non-governmental organizations (labor, business, and veterans).

POSC 3508 - Politics of Filipino-American Relations

Units: 4

Filipino-American relations within the context of Filipino nationalism and America's rise as a superpower.

POSC 3510 - International Security in the 21st Century

Units: 4

Comprehensive approach to studying traditional and non-traditional security concerns in the world. Issues include great power politics, nuclear proliferation, terrorism, failed states, environmental security, and transnational crime. Simulation of crisis situation.

POSC 3520 - International Relations

Units: 4

The conduct of relations among states. The international system, national power, sovereignty, nationalism, ideology; use of diplomacy, propaganda, economic influence, military force; problems of neocolonialism, multinational corporations, racial tensions, nuclear deterrence, war, the role of the United Nations.

POSC 3521 - Politics of the Global Economy

Units: 4

International trade and development assistance. Focus on GATT, the World Trade Organization, the G7 nations, and the International Monetary Fund. Problems of transnational corporations, labor standards, and migration. Global liberalism compared with collectivist economies. Ecological, participatory, regional and nationalist challenges.

POSC 3550 - The United Nations and World Community

Units: 4

Historical, institutional and theoretical background of the contemporary United Nations and related agencies; focus on participation of selected countries in the UN structure and operations with regard to

current international problems and issues. **Repeatability:** May be repeated once for credit by students participating in Model UN, for a maximum of 8 units.

Political Science: Political Theory

POSC 3703 - American Political Thought

Units: 4

Significant American political ideas and thinkers from the Pilgrims to the present. Includes, among others, Jefferson, Madison, Calhoun, King, and Gingrich.

POSC 3704 - Marxism in Theory and Practice

Units: 4

The writings of Marx and the characteristics of Marxism in the 20th century.

POSC 3711 - Greek, Roman and Medieval Political Thought

Units: 4

Major Western political ideas from the Greeks through the 15th century. Emphasis upon major political theorists in the development of classical Greek and Roman, Medieval Christian, and Renaissance political theory.

POSC 3713 - Contemporary Political Thought

Units: 4

Major Western political ideas in the 19th and 20th centuries. Emphasis upon central figures in the development of Democratic, Marxist, Socialist, and various other contemporary bodies of political theory.

POSC 3717 - Theories of Empire

Units: 4

Major theories and debates about imperialism, its history, its modern manifestations, and its status and future in the post-Cold War era.

Political Science: Public Law

POSC 3410 - Law and Society

Units: 4

Rise of the American legal system and evolution of values in the law. Courts in the political system and the policy impact of modern legal initiatives.

POSC 3417 - Survey of American Law

Units: 4

The basic elements of the American legal system, its essential values, and its impact on society. Personal injury, contracts, criminal law, regulation, and international law. Emphasis on case law as the basis for exploring the legal system.

POSC 3441 - American Constitutional Law: Government

Units: 4

The American Constitution as a model of government. The role of democracy, federalism, assumptions regarding human nature, citizenship, separation of powers, capitalism, and issues of empire building.

POSC 3442 - American Constitutional Law: Rights

Units: 4

The Bill of Rights as interpreted by Court decisions since its adoption. Topics include freedom of speech, religion, equal protection, and personal privacy. Emphasis on the relationship among rights, politics, judicial behavior and public policy.

POSC 3460 - Environmental Law

Units: 4

Legislative, judicial, and administrative controls over public and private actions impacting on the environment. Examination of statutory, administrative, and judicial decisions relating to the environment and of government actors and agencies making these decisions.

POSC 3470 - International Law

Units: 4

The rules that govern governments and world bodies. Includes treaties, law of the sea, environmental protection, use of force, terrorism, and markets. Focus on the movement toward global community. **Credit Restrictions:** Not open to students with credit for POSC 3951.

POSC 3503 - Philosophy of Law

Units: 4

(See PHIL 3503 for course description.)

Political Science: Public Policy and Administration

POSC 3419 - Labor Policy and Law

Units: 4

Historical development and changing fortunes of working class, trade unions, immigrant, and women workers. Growth among government workers and declining numbers in private industry. U.S. Government's labor laws and judicial interpretation for private and public sectors.

POSC 3522 - The Politics and Law of New Genetic Technologies

Units: 4

The politics and law of new genetic technologies (cloning, stem cell research, genetic engineering, etc.) in global perspective. National and international models for oversight. Comparison of approaches by types of political regime and economic system.

POSC 3800 - Public Policy Analysis

Units: 4

Surveys the formulation, implementation, and impact of public policy dealing with social and economic problems. Examines and evaluates the causes and content of government policy in various areas such as civil rights, social welfare, urban affairs, crime, education, health, environment, energy, taxation.

POSC 4171 - Public Policy and the Environment

Units: 4

Politics of human-environment relationships. Sustainability, biodiversity, population, consumption, technology, energy, water, resources, recycling, pollution, and urban systems. Cultural values, paradigm change, science, risk analysis, market pricing, competition of networks, and citizen action. Significant written assignment integrates theory and practice.

POSC 4445 - Bureaucratic Politics and Administrative Law

Units: 4

Politics of bureaucracy, government regulations, administrative law, exploration of the content, and structure of public administration. Public finances, human resource management, workplace discrimination, ethics, regulation within institutions. **Cross-listed:** PUAD 4445.

Psychology

PSYC 1000 - General Psychology

Units: 5

An introduction to the scientific study of basic processes underlying human and animal behavior; sensation and perception, learning and thinking, motivation, and emotion. **Credit Restrictions:** Not open to students with credit for PSYC 1001, PSYC 1002, PSYC 1005, PSYC 2004, or PSYC 2009. **Credit Equivalency:** PSYC 1001, PSYC 1002, PSYC 1005, PSYC 2004, PSYC 2009.

PSYC 1001 - General Psychology and Society

Units: 5

An introduction to the scientific study of basic processes underlying human and animal behavior, sensation and perception, learning and thinking, motivation and emotion, as it relates to the individual and society. **Credit Restrictions:** Not open to students with credit for PSYC 1000 (or equivalent).

PSYC 1002 - General Psychology of Music and Mind

Units: 5

Introduction to the scientific study of basic processes underlying human and animal behavior: sensation and perception, learning and thinking, motivation, and emotion, with an emphasis on those processes relevant to music. Satisfies GE Area: B2, B5, and Area D. **Credit Restrictions:** Not open to students with credit for PSYC 1000 (or equivalent). **Grading:** A-F grading only.

PSYC 1005 - General Psychology for Healthier Living

Units: 5

An introduction to the scientific study of basic processes underlying human and animal behavior; sensation and perception, learning and thinking, motivation, and emotion. Emphasis on psychological aspects of health. **Credit Restrictions:** Not open to students with credit for PSYC 1000 (or equivalent).

PSYC 1100 - Critical Thinking in Psychology

Units: 4

The role of critical thinking in the scientific study of behavior. Inductive and deductive use of experiments by which selected problems are investigated with emphasis on experimental design and common logical fallacies in interpreting empirical data. **Credit Restrictions:** Not for credit in the Psychology major.

PSYC 2020 - Methods of Investigation in Psychology

Units: 4

Experimental, correlational, and observational methods in the study of psychology with selected examples. **Prerequisites:** *PSYC 1000 (or equivalent)*. **Credit Restrictions:** Not open to students with credit for PSYC 3090.

PSYC 3100 - Experimental Psychology

Units: 5

A laboratory course in the development, design, and execution of psychological experiments, the analysis of data, and the writing of formal research reports. **Prerequisites:** *PSYC 1000 (or equivalent); and PSYC 2020; and STAT 1000 and STAT 3010.*

PSYC 3190 - Human Factors Engineering

Units: 4

(See INDE 3190 for course description.)

PSYC 3200 - Psychological Tests

Units: 4

Introduction to selecting and evaluating standardized tests of aptitude, achievement, personality, and other human traits. Validity, reliability, generalizability, and ethics. **Prerequisites:** *PSYC 1000 (or equivalent); and STAT 1000 and STAT 3010.*

PSYC 3210 - Principles of Survey and Test Construction

Units: 4

Construction of survey or test instruments using Classical Test theory and Item Response theory; item development; sampling; data analysis; test bias and test fairness; interpretation and presentation of results. **Prerequisites:** *PSYC 1000 (or equivalent); and STAT 1000 and STAT 3010.*

PSYC 3220 - Psychology of Individual Differences

Units: 4

Survey of human traits (including intelligence), and examination of evidence for differences among individuals differing in sex, age, personality, race, etc. Consideration of social implications. **Prerequisites:** *PSYC 1000 (or equivalent); and STAT 1000 and STAT 3010.*

PSYC 3230 - Applied Measurement

Units: 4

An introduction to applied measurement. Signal detection theory, unidimensional scaling, multidimensional scaling, and policy modeling techniques. Relevance to cognitive processes, industrial psychology, and perceptual processes. **Prerequisites:** *PSYC 1000 (or equivalent); and STAT 1000 and STAT 3010.*

PSYC 3240 - Decision Theory

Units: 4

An introduction to the literature and methods of decision science. The theory and decision strategies, with examples across many applications. Focus on descriptive as opposed to normative models. Students will study decision strategies and methods of modeling preference structures. **Prerequisites:** *PSYC 1000 (or equivalent); and STAT 1000 and STAT 3010.*

PSYC 3250 - Behavior Modification

Units: 4

The extension of principles and concepts emerging from the experimental analysis of behavior to problems of behavior modification outside the laboratory. **Prerequisites:** *PSYC 1000 (or equivalent).*

PSYC 3400 - Ergonomics and Human Factors

Units: 4

Human factors in tasks involving attention, decision making, and other complex responses. Current

findings, methods of research, and applications in industry and other man-machine situations.

Prerequisites: PSYC 1000 (or equivalent).

PSYC 3410 - Psychology of Women

Units: 4

Critical examination of data affecting views of and by women, including: socialization of sex-roles, rape, marriage, the family, career barriers, development of stereotypes. Psychology majors may take for university credit. **Prerequisites:** WOST 1000 or upper division standing. **Credit Restrictions:** Not for credit in Psychology major.

PSYC 3420 - Stress and Coping

Units: 4

A systematic look at the major theories and research about stress and coping, with discussion of applications. Stress and coping will be examined in the context of everyday situations, e.g., illness, death and dying, and the workplace. **Prerequisites:** PSYC 1000 (or equivalent). **Credit Restrictions:** Not open to students with credit for PSYC 2420.

PSYC 3500 - Social Psychology

Units: 4

Current theory and research on behavioral and cognitive processes arising in human social interaction. Emphasis on experimental investigations of self appraisal and attribution, collective and group dynamics, social conformity and conflict. **Prerequisites:** PSYC 1000 (or equivalent).

PSYC 3520 - Interpersonal Processes

Units: 4

Selected topics on the development and maintenance of social relationships, interpersonal attraction, self disclosure, communication dynamics of power and intimacy, and the resolution of conflict. **Prerequisites:** PSYC 1000 (or equivalent).

PSYC 3540 - Groups and Organizations

Units: 4

The behavior of individuals in modern groups and organizations: work groups, universities, and other bureaucracies. Emphasis on theories of problem solving to create satisfying, effective, productive environments within organizations. **Prerequisites:** PSYC 1000 (or equivalent).

PSYC 3550 - Social Influence and Change

Units: 4

Selected topics in the use of persuasion and social power to effect both behavioral compliance and

attitude change: Includes problems of effective leadership and intervention as well as resistance to change in applied settings. **Prerequisites:** *PSYC 1000 (or equivalent)*.

PSYC 3560 - Psychology of Negotiation and Conflict Resolution

Units: 4

Survey of psychological research on negotiation and conflict resolution processes. Specific topics include: cognitive, motivational, and emotional processes involved in misunderstanding, conflict, negotiation and conflict resolution. **Prerequisites:** *PSYC 1000 (or equivalent)*. **Grading:** A-F grading only.

PSYC 3600 - The Impact of Culture on Social Psychology

Units: 4

A survey of cultural variations in motivational, cognitive, and emotional processes (such as attitude and social judgment), and how such variations manifest themselves in interpersonal and group contexts (such as conflict resolution). **Prerequisites:** *PSYC 1000 (or equivalent); and PSYC 2020*.

PSYC 4200 - Conditioning and Learning

Units: 4

Basic principles and results of conditioning and learning experimentation. **Prerequisites:** *PSYC 2020 or PSYC 1100*.

PSYC 4210 - Theories of Learning

Units: 4

Survey of theories of learning with emphasis on experimental work arising from them; their underlying assumptions, strengths and weaknesses, practical implications, and methodological approaches to research problems. **Prerequisites:** *PSYC 1000 (or equivalent); and PSYC 2020 and PSYC 4200*.

PSYC 4220 - Cognitive Processes

Units: 4

Selected topics in thinking and information processing in humans, e.g., problem solving, language, memory and forgetting, concept formation, attention, creativity, imagery, etc. Various theories and selected experiments are described, analyzed and interpreted. **Prerequisites:** *PSYC 1000 (or equivalent)*.

PSYC 4300 - Motivation

Units: 4

Nature of primary and secondary drives. Critical analysis of the concept of motivation in relation to behavior, learning, and performance. **Prerequisites:** *PSYC 1000 (or equivalent); and PSYC 4200*.

PSYC 4310 - Comparative Psychology

Units: 4

Survey of the similarities and differences in sensory systems, learning, motivation, social organization, and development of closely related and relatively unrelated animals, including the human species.

Prerequisites: *PSYC 1000 (or equivalent).*

PSYC 4320 - Physiological Psychology

Units: 4

The biological foundations of human and animal behavior, including physiological processes related to sensory and motor activity, perception, learning, thinking, motivation, and emotion. **Prerequisites:** *PSYC 1000 (or equivalent).*

PSYC 4345 - Sensation and Perception

Units: 4

The function of the eyes, ears, and other sense organs in bringing information about the world to the brain. The use of this information in perceiving objects and events. **Prerequisites:** *PSYC 1000 (or equivalent).*

PSYC 4350 - Heredity and Behavior

Units: 4

A consideration of genetic and environmental determinants of behavior and psychological characteristics of animals and humans. **Prerequisites:** *PSYC 1000 (or equivalent).*

PSYC 4360 - Psychopharmacology

Units: 4

Classification of psychoactive drugs, principles of action, reading the drug literature critically, beneficial and harmful effects of prescription and illegal drugs, prevention and treatment of abuse, pharmacotherapy, including alternatives to psychiatric drugs. **Prerequisites:** *PSYC 1000 (or equivalent).*

PSYC 4370 - Cognitive Neuroscience

Units: 4

Overview of research examining the neural mechanisms underlying cognitive processes such as perception, attention, memory, and language. **Prerequisites:** *PSYC 1000 (or equivalent); and PSYC 4320.*

Grading: A-F grading only.

PSYC 4390 - History and Systems of Psychology

Units: 4

Survey of historical developments in the emergence of modern scientific psychology. Contemporary theoretical systems discussed with emphasis on how they approach the recurring problems of psychology.

Prerequisites: *PSYC 1000 (or equivalent); and 16 units of upper division psychology and senior standing.*

PSYC 4410 - Abnormal Psychology

Units: 4

Overview of the major psychiatric disorders such as mood and anxiety disorders, posttraumatic stress disorder, personality disorders, substance abuse and dependence, and schizophrenia. Emphasis is on diagnostic criteria; biological, psychological, and sociocultural causes; and treatment implications.

Prerequisites: *PSYC 1000 (or PSYC 1001 or PSYC 1005).*

PSYC 4420 - Developmental Psychology

Units: 4

Psychological development across the life span. Affords a developmental perspective of perception, cognition, language, and of emotional, social, and personal behavior. **Prerequisites:** *PSYC 1000 (or equivalent).*

PSYC 4440 - Child Psychopathology

Units: 4

Survey of psychiatric disorders affecting children and adolescents. Emphasis is on diagnostic criteria; biological, psychological, and sociocultural causes; and treatment implications. **Prerequisites:** *PSYC 1000 (or equivalent).*

PSYC 4500 - Industrial Psychology

Units: 4

Applications of industrial psychology concepts and methods to actual cases (e.g., hiring, evaluation, motivation, training, compensation, safety, marketing, total quality management, stress management, morale, ethics/dishonesty, reorganization, human factors). Lecture, case study, individual and group projects. **Prerequisites:** *PSYC 1000 (or equivalent); and STAT 1000 and STAT 3010, and Senior standing.*

PSYC 4610 - Psychology of Personality

Units: 4

Critical review of method and content in the study of personality. Historical development of the field, with attention to recent applications of scientific method to problems of personality. **Prerequisites:** *PSYC 1000 (or equivalent).*

PSYC 4620 - Theories of Personality

Units: 4

Undergraduate seminar: survey and analysis of some major theories of personality, including systematic analysis of theory construction. **Prerequisites:** *PSYC 1000 (or equivalent); and PSYC 4410 or PSYC 4440 or PSYC 4610.*

PSYC 4630 - Introduction to Psychotherapy and Clinical Methods

Units: 4

Overview of professional issues in clinical psychology and the theoretically based approaches to psychotherapy (i.e., psychoanalytic, cognitive, behavioral, existential, humanistic, and systems).

Prerequisites: PSYC 4410 or PSYC 4610.

PSYC 4740 - Psycholinguistics

Units: 4

Basic psychological aspects of human verbal behavior and related phenomena. The acquisition and development of language, perception of language, and effect of language on thought. **Prerequisites:** PSYC 1000 (or equivalent).

PSYC 4800 - Human Learning and Cognition Laboratory

Units: 2

Selected experiments in human learning, verbal learning, abilities, and problem solving. Experiments will be designed, executed, analyzed, and reported. **Prerequisites:** PSYC 1000 (or equivalent); and PSYC 2020 and PSYC 3100 and STAT 1000 and STAT 3010 and PSYC 4200 or PSYC 4220 or PSYC 4740. **Repeatability:** May be repeated three times for credit, for a maximum of 8 units. [Although courses in the 4800-4808 series may be repeated for credit, two different courses are required for the psychology major.]

PSYC 4801 - Learning and Motivation Laboratory

Units: 2

Selected experiments in conditioning, learning and motivation, with an emphasis on subhuman species. Experiments will be designed, executed, analyzed and reported. **Prerequisites:** PSYC 1000 (or equivalent); and PSYC 2020 and PSYC 3100 and STAT 1000 and STAT 3010 and PSYC 4200. **Repeatability:** May be repeated three times for credit, for a maximum of 8 units. [Although courses in the 4800-4808 series may be repeated for credit, two different courses are required for the psychology major.]

PSYC 4802 - Sensation and Perception Laboratory

Units: 2

Selected experiments from psychophysics, perception, vision, audition, and olfaction. Experiments will be designed, executed, analyzed, and reported. **Prerequisites:** PSYC 1000 (or equivalent); and PSYC 2020 and PSYC 3100 and STAT 1000 and STAT 3010 and PSYC 4220 or PSYC 4320 or PSYC 4345. **Repeatability:** May be repeated for credit for a maximum of 8 units. [Although courses in the 4800-4808 series may be repeated for credit, two different courses are required for the psychology major.]

PSYC 4803 - Physiological Psychology Laboratory

Units: 2

Selected experiments in physiological processes, related sensory and motor activity. Experiments will be designed, executed, analyzed, and reported. **Prerequisites:** PSYC 1000 (or equivalent); and PSYC 2020 and PSYC 3100 and PSYC 4320 and STAT 1000 and STAT 3010. **Repeatability:** May be repeated

three times for credit, for a maximum of 8 units. [Although courses in the 4800-4808 series may be repeated for credit, two different courses are required for the psychology major.]

PSYC 4804 - Social and Personality Laboratory

Units: 2

Selected experiments in social psychology and personality problem areas. Experiments will be designed, executed, analyzed, and reported. **Prerequisites:** *PSYC 1000 (or equivalent); and PSYC 2020 and PSYC 3100 and STAT 1000 and STAT 3010 and PSYC 3500 or PSYC 4610.* **Repeatability:** May be repeated three times for credit, for a maximum of 8 units. [Although courses in the 4800-4808 series may be repeated for credit, two different courses are required for the psychology major.]

PSYC 4805 - Comparative Psychology Laboratory

Units: 2

Selected experiments on social organization, communication, perception, activity patterns, learning and behavioral development in animals (insects, fish, reptiles, birds, mammals). Experiments will be designed, executed, analyzed, and reported. **Prerequisites:** *PSYC 1000 (or equivalent); and PSYC 2020; and PSYC 3100; and PSYC 4310 or PSYC 4350; and STAT 1000; and STAT 3010.* **Repeatability:** May be repeated three times for credit, for a maximum of 8 units. [Although courses in the 4800-4808 series may be repeated for credit, two different courses are required for the psychology major.]

PSYC 4806 - Developmental Psychology Laboratory

Units: 2

Selected experiments from a human developmental perspective. Experiments will be designed, executed, analyzed, and reported. **Prerequisites:** *PSYC 1000 (or equivalent); and PSYC 2020 and PSYC 3100 and STAT 1000 and STAT 3010 and PSYC 4420.* **Repeatability:** May be repeated three times for credit, for a maximum of 8 units. [Although courses in the 4800-4808 series may be repeated for credit, two different courses are required for the psychology major.]

PSYC 4807 - Clinical Psychology Laboratory

Units: 2

Selected research in clinical psychology. Studies will be designed, executed, analyzed, and reported. **Prerequisites:** *PSYC 1000 (or equivalent); and PSYC 2020 and PSYC 3100 and STAT 1000 and STAT 3010 and PSYC 4410 or PSYC 4440.* **Repeatability:** May be repeated three times for credit, for a maximum of 8 units. [Although courses in the 4800-4808 series may be repeated for credit, two different courses are required for the psychology major.]

PSYC 4808 - Industrial Psychology Laboratory

Units: 2

Selected experiments in industrial psychology, tests and surveys, and decision-making. Experiments will be designed, executed, analyzed, and reported in APA format. **Prerequisites:** *PSYC 1000 (or equivalent); and*

PSYC 2020 and PSYC 3100 and STAT 1000 and STAT 3010 and PSYC 3210 or PSYC 3240 or PSYC 4500 .

Repeatability: May be repeated three times for credit, for a maximum of 8 units. [Although courses in the 4800-4808 series may be repeated for credit, two different courses are required for the psychology major.]

PSYC 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Public Administration

PUAD 3999 - Issues in Public Administration

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in public administration.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.

PUAD 4445 - Bureaucratic Politics and Administrative Law

Units: 4

(See POSC 4445 for course description.)

PUAD 4800 - Public Administration and Society

Units: 4

The historical and political context of public administration; politics and economics of public bureaucracy; managing governmental organizations; public finance and national economy; values, ethics, and public interest; interface between professional administrators and citizens. **Prerequisites:** "Classified Graduate" standing in the M.P.A. program.

PUAD 4830 - Organization Theory and Human Behavior

Units: 4

Classical and emerging theoretical perspectives on human organizations; organizational design and tomorrow's organizations; self and organization; environment and planned change; participative goalsetting and organizational effectiveness. **Prerequisites:** "Classified Graduate" standing in the MPA program.

PUAD 4840 - Fundamentals of Information Management in the Public Sector

Units: 4

Fundamentals of information technology, information policy, and management in the public and nonprofit sectors; computerized applications for the collection, analysis, and presentation of information; research using online databases. Ten hrs/week in computer lab.

PUAD 4900 - Independent Study

Units: 1-2

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Public Administration: Graduate

PUAD 5000 - Philosophy of Public Administration

Units: 4

Critical analysis of emerging domestic and global ideas and issues shaping and being shaped by the public sector. Theoretical perspectives on understanding values, ethics, citizenship, public good, and search for democratic administration. **Prerequisites:** PUAD 4800, PUAD 4830.

PUAD 5900 - Independent Study

Units: 1-4

PUAD 6762 - Group Procedures and Facilitation

Units: 4

Focus on becoming a lifelong learner and change manager by developing self-awareness and critical reflection skills. Explore learning styles, managing oneself, interpersonal skills, systems and integrative thinking, group processes and managing change. Includes discussion, group activities, and case problems. **Prerequisites:** PUAD 6812 or HCA 4200.

PUAD 6765 - Organizational Diagnosis and Assessment

Units: 4

Intervention strategies (e.g., systems-based, appreciative inquiry, dialogue conferences, action learning), O. D. methods, interview techniques, observation, surveys, and discussion. Course participants carry out an organizational diagnosis and assessment.

PUAD 6766 - Organizational Intervention and Engagement

Units: 4

Models and methods of managing organizational change, data collection and interpretation, and stakeholder engagement; ethical practices. Course participants carry out an organizational diagnosis and intervention. **Repeatability:** May be repeated once for credit for a maximum of 8 units.

PUAD 6801 - Public Policy Formulation

Units: 4

Critical analysis of public policy-making processes; interrelationships among policy formulation,

implementation, evaluation, and revision; alternative models of the policy process. **Prerequisites:** PUAD 4800.

PUAD 6802 - Seminar in Public Policy Implementation

Units: 4

Developing strategies and tactics for identifying and solving implementation problems. Implementation as a design, evaluative, and learning process. Analysis of implementation case studies. **Prerequisites:** PUAD 6801.

PUAD 6809 - Seminar in Public Program Evaluation

Units: 4

Assessment of policy impact and effectiveness; analysis of program objectives; methods of evaluation; developing action-oriented evaluation processes; administration of evaluation systems. **Prerequisites:** PUAD 6801.

PUAD 6811 - Human Organizations and Social Realities

Units: 4

Post-modernist approaches to the understanding of organizational realities, including phenomenological, critical, feminist, and other interpretive approaches; subjective, intersubjective, contextual, historical influences; organizational socialization and personality growth, personal and organizational value development and human effectiveness. **Prerequisites:** PUAD 4800 and PUAD 4830.

PUAD 6812 - Changing Human Organizations

Units: 4

Application of interpretive, critical, and postmodern theories to changing organizations; use of meaning-centered, experientially grounded theories for understanding organizational cultures; personal praxis in changing organizations. **Prerequisites:** PUAD 6811.

PUAD 6815 - Ethics and Administrative Responsibility

Units: 4

Ethical dimensions of the public service; value dilemmas, administrative ethics and accountability, responsibility in making public choices, whistle-blowing, the public interest; equality and equity in democracy. **Prerequisites:** PUAD 6801 and PUAD 6811.

PUAD 6830 - Advanced Information Management in Public Organizations

Units: 4

Critical examination of the use of information management; e-government; implications of using analytical techniques for public policy analysis, budgeting, decision making, knowledge management, and improvement of client services. **Prerequisites:** PUAD 4800 and PUAD 4830.

PUAD 6831 - Research Methods in Public Administration I

Units: 4

Theory and methods of interpretive research in the public sector. Emphasis on meaning-centered and inductive modes of data-gathering and analysis, including interviews, participant observation, ethnographic methods and the development of grounded theory. Issues in case study presentation and field research narratives. **Prerequisites:** *PUAD 4800, PUAD 4830, and PUAD 5000.*

PUAD 6832 - Research Methods in Public Administration II

Units: 4

Positivistic research methods; uses of quantitative and computer analysis; application of quantitative approaches to organizational improvement, policy research, and decision making; implementation of research design; examination of the logic underlying application of quantitative methods and statistical techniques. **Prerequisites:** *PUAD 4800, PUAD 4830, and PUAD 5000.*

PUAD 6840 - Seminar in Public Finance Administration

Units: 4

Budgetary processes in public policy formation and administrative control; strategic principles of fiscal policy in attaining public goals; public revenues, sources, incident, and effect of principal taxes; intergovernmental aspects of revenue problems; grants in aid. **Prerequisites:** *PUAD 6801.*

PUAD 6842 - Governmental Budgeting

Units: 4

Governmental budgeting as political and social process; administrative control at federal, state, local levels; central budget agencies and budget offices in operating agencies, budgets as planning, policymaking and management instruments; executive-legislative relationships. **Prerequisites:** *PUAD 6801.*

PUAD 6850 - Human Resource Management in the Public Sector

Units: 4

Development of public service concepts and institutions; assessment of public personnel methods and organizations; interaction with other management functions, and with the executive and legislative processes; influence of social and political values upon public service concepts. **Prerequisites:** *PUAD 6811.*

PUAD 6851 - Work and Organizations of the Future

Units: 4

Critical assessment of the nature of work and traditional human resource practices in public organizations. Empowering and involving employees. Diversity, trust, and mutualism. Relationships among information technologies, the organization, employees, and citizens. Creating the organization of the future. **Prerequisites:** *PUAD 6811.*

PUAD 6854 - Seminar in Public Labor Relations

Units: 4

History and present legal status of public labor relations; changing concepts and their implications for existing institutions; processes and values in public personnel systems; dispute resolution; cooperative labor/management committees and other current issues. **Prerequisites:** PUAD 6801.

PUAD 6864 - Managing Public Organizations

Units: 4

The responsibilities of the public sector manager; differences between private and public sector management; short versus long-term management in the public sector. Critical examination of public managers as strategic leaders. **Prerequisites:** PUAD 6801.

PUAD 6869 - Topics in Public Management

Units: 4

Specialized investigations of public management issues and problems selected by instructor. **Prerequisites:** PUAD 6801. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

PUAD 6878 - Transforming Health Care

Units: 4

Emerging career plans in health care administration. The implications of decentralized health care and integrated health systems for health care workers. The future of health care delivery systems and the wider impact of these changes on the social order. **Prerequisites:** PUAD 6801 and PUAD 6811.

PUAD 6893 - Internship in Public Administration

Units: 1-4

Academically challenging field placements in half-time or full-time positions with governmental agencies under the supervision of university faculty member. Examination of the relationship of theory to practice in the provisions of public service. **Prerequisites:** "Classified Graduate" status and the consent of the Internship Coordinator. **Grading:** CR/NC grading only.

PUAD 6897 - Community Health Administration Practicum

Units: 4

Practical experiences through field work with community agencies, emphasis on improving a student's ability to activate community resources and support sustainable wellness communities. **Prerequisites:** HCA 4200, and either PUAD 4830 or MGMT 3614.

PUAD 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 3.0 GPA; the approval of the Internship Coordinator.* **Repeatability:** May be repeated for credit, for a maximum of 8 units. A maximum of 4 units will be accepted toward the Master of Public Administration degree. **Grading:** *CR/NC grading only.*

PUAD 6900 - Independent Study

Units: 1-4

PUAD 6901 - Graduate Synthesis

Units: 4

A synthesis of public administration theories and concepts through a critique of major readings in the field. **Prerequisites:** For Comprehensive Examination. Advancement to Candidacy (completion of all core courses, option area requirements, and electives) and consent of instructor.

PUAD 6909 - Departmental Thesis

Units: 1-4

Development and writing of a research paper for submission to the department, which specifies its format. Supervision by a departmental faculty member. Oral defense normally required. (See also "Departmental Thesis Guidelines," available in department office.) **Prerequisites:** *Advancement to Candidacy and consent of thesis advisor. Maximum of 4 units per student.*

PUAD 6910 - University Thesis

Units: 1-4

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See also "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.) **Prerequisites:** *Advancement to Candidacy and consent of Thesis Committee. Maximum of 4 units per student.*

PUAD 6999 - Issues in Public Administration

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in public administration. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Recreation

REC 1000 - Introduction to Recreation

Units: 4

An introductory multi-disciplinary and multi-cultural investigation of the implications of how leisure contributes to the quality of life of individuals and communities. Survey of institutions and organizations providing recreational services, examining the effects of ethnicity, dominant culture, age and ability on service delivery. This course is a prerequisite for all core courses.

REC 2050 - Computers in Hospitality, Recreation and Tourism

Units: 2

Competency based introduction to computers as a tool in leisure and hospitality. Must earn a grade of B- or better to earn credit for this course.

REC 2100 - Leadership Principles in Action

Units: 4

Exploration and development of decision making skills, program design, and character education for youth and young adults. Effects of urban and suburban environments on discipline, cultural tolerance, and youth development will be explored. Class will require active learning while producing leisure experiences for student life on campus.

REC 2200 - Programming in Leisure Services

Units: 4

Examination of factors influencing the planning processes of designing small and large activities or events. Planning and conducting activities for groups with attention to assuring social justice for ability, ethnic and cultural diversity. Active learning required.

REC 2400 - Leisure, Self, and Society

Units: 4

Multi-disciplinary, multi-cultural investigation of the impact of recreation, leisure, and learning on individual, community, and human behavior and development, including ethnicity, dominant culture, age, and leisure behavior. Leisure's impact on society and the quality of life.

REC 2500 - Service Learning in Leadership, Hospitality and Leisure 1

Units: 1-4

Field experiences in leisure, hospitality and community services agencies. Supervision of students by agency and reporting to University supervisor via online. One hundred hours of field experience for 4 units. 25 hours of service per unit. **Repeatability:** May be repeated for credit with consent of department, for a maximum of 8 units. **Grading:** CR/NC grading only.

REC 3000 - Philosophy of Leisure

Units: 4

Analysis of the roots of current practices, theories and philosophies in the fields of leisure, and hospitality. Introduction to leisure and its impact in the world's environment, the need to promote sustainable tourism and understanding cultural differences in leisure. Development of one's own philosophy, both personal and professional.

REC 3010 - Service Learning in Hospitality, Recreation and Tourism 2

Units: 4

Service learning in leisure, hospitality, clinical, school, college, and community settings. One hundred (100) hours of service with online reflection assignments connecting professional theories with professional service. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units. **Grading:** *CR/NC grading only.*

REC 3200 - Wellness Through Leisure

Units: 4

Theories and concepts of wellness, health and self-efficacy. The importance of leisure, recreation, the environment, education and culture in the development of wellness. Self-responsibility in the pursuit of holistic wellness through leisure.

REC 3202 - Women and Leisure

Units: 4

Exploration of women and their leisure and recreation pursuits from a creative, historical and cultural perspective. Leisure's role in contributing to the quality of life of women. Women's leisure expression as a reflection of societal change.

REC 3300 - Leadership in Hospitality, Recreation and Tourism

Units: 4

Examination of leadership theories, successful leadership techniques, and analysis of self in leadership roles. Emphasis is placed on group work and dynamics, communication, and cultural and ethnic diversity. Leadership supervision of employees, volunteers, and clients using cooperative team building techniques will be taught through active learning. **Prerequisites:** *HOS 1100, REC 1000, REC 2050, REC 2400 or REC 3000 or permission of instructor.*

REC 3305 - Outdoor Living Skills

Units: 4

Introduction to backpacking equipment and clothing, map orientation, wilderness survival and first aid, trip planning and logistics. Practical outdoor experience in developing leadership, group dynamics, problem-solving, and team building skills. Requires one weekend backpacking trip.

REC 3401 - Leadership of Small Groups

Units: 4

Direct leadership techniques, incorporating programming principles to design and implement programs and activities for small groups. Students will be providing services to the University community.

REC 3510 - Management and Supervision in Hospitality, Recreation and Tourism

Units: 4

The art and science of managing and supervising employees, including seasonal, contract and full time professionals with different bureaucratic constrictions on job duties and responsibilities. Exploration of hiring, training, motivation, discipline, legal, ADA and ethical concerns in public leisure settings.

REC 3701 - Evaluation and Research in Hospitality, Recreation and Tourism

Units: 4

Explore the use of data to make informed decisions as a manager in Leisure and Hospitality settings. Students will learn how to conduct a literature review, design surveys, collect and analyze data, and create reports using both quantitative and qualitative data. Community survey methods and techniques will be taught through active learning. **Prerequisites:** *HOS 1100, REC 1000, REC 2050, REC 2400 or REC 3000 or permission of instructor.*

REC 3800 - Introduction to Recreation Therapy

Units: 4

Introduction to theory and techniques used in the practice of therapeutic recreation. Activity analysis, disability awareness, mainstreaming and integration, empowerment, learned helplessness, risk management, and quality assurance.

REC 3999 - Issues in Hospitality and Leisure Services

Units: 1-4

Readings, discussion, and research on contemporary and/or significant issues in leisure and hospitality. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

REC 4000 - Administration and Budgeting in Recreation

Units: 4

Study of organizational management including human resources, financial strategies (including introduction to preparing budgets), strategic planning, organizational culture, risk management, ethics, and legal aspects of management. **Prerequisites:** *HOS 1100, REC 1000, REC 2050, REC 2400 or REC 3000, REC 3000, REC 3300, REC 3510, or permission of instructor.*

REC 4011 - Youth Development through Leisure

Units: 4

Principles of working with elementary age children using sports and recreation to develop character and

self-esteem. First part of course will encompass lecture/activities. Second part includes participation in youth programs. Written assignment required. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

REC 4050 - Social Justice in Hospitality, Recreation and Tourism

Units: 4

Understanding our diverse society through an in-depth analysis of attitudes and beliefs about people, our differences and similarities (culture, ethnicity, disability) and how to treat everyone with dignity and respect. **Prerequisites:** *HOS 1100, REC 1000, REC 2050, REC 2400 or REC 3000 or permission of instructor.*

REC 4100 - Professional Issues in Hospitality, Recreation and Tourism

Units: 2

Critical examination of issues including professional certification, accountability, ethics, diversity, environmental health and safety. Exploration of professional groups supporting the profession and the role of maintaining professional knowledge and personal responsibility. **Prerequisites:** *HOS 1100, REC 1000, REC 2050, REC 2400 or REC 3000 or permission of instructor.*

REC 4300 - Facilities Management and Administration in Leisure

Units: 4

Management of leisure and hospitality areas and facilities: clientele considerations, facility and outdoor area site planning; day-to-day operations of common recreation areas and facilities. Agency visitation required. Two lectures, 3 days of field trips to recreation centers, aquatic center, and parks. Spring break class. Must attend ALL class sessions. Contact instructor for Online requirements if necessary.

Prerequisites: *HOS 1100, REC 1000, REC 2050, REC 2400 or REC 3000 or permission of instructor.*

REC 4501 - Special Events Management 1

Units: 4

Planning and implementing special events and conferences. Topics include event planning, coordination, research, marketing, logistics, themes, programming, volunteers, risk management, and evaluation.

Repeatability: May be repeated once for credit, for a maximum of 8 units.

REC 4600 - Recreation Therapy Documentation and Assessment

Units: 4

Assessment procedures and instruments used to assure competence in assessment of client function in leisure. Documentation, assessment, regulations in different settings (i.e., community, hospital, and clinical settings), protocols and development of individual treatment plans. **Prerequisites:** *HOS 1100, REC 1000, REC 2050, REC 2400 or REC 3000 or permission of instructor.*

REC 4601 - Recreation Therapy Treatment and Program Planning

Units: 4

Theory, techniques and modalities used in recreation therapy. Foundations of leisure counseling and leisure education. Systems theory of program design including individual and group program plans, risk management and quality assurance. Fifty (50) hours of practicum required.

REC 4602 - Recreation Therapy Processes

Units: 4

Theory and application of leisure modalities including leisure education, activity adaptation, and equipment modification. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

REC 4603 - Recreation Therapy Programming

Units: 4

Non-competitive activities to promote self-esteem and self efficacy. Active student learning and participation to demonstrate effective programming techniques. **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 8 units.

REC 4604 - Recreation Therapy: Advancing the Profession

Units: 4

Professional development of knowledge needed to practice recreation therapy including licensure, certification standards, accreditation standards in clinical settings and the recreation therapist's role. Advocacy and legislation pertaining to RE practice, and links to higher education and internship placements to promote RE. **Online course. Grading:** A-F only.

REC 4605 - Recreation Therapy: Treatment and Diagnostic Groups

Units: 4

In-depth study of disabling conditions recreation therapists work with including brain injury, spinal cord injury, mental illness, stroke, cognitive difficulties, and challenges of aging. The standard treatment protocols of each disability will also be discussed. The ramifications of the disabilities on a person's mental, physical, emotional, social, and spiritual well-being. **Prerequisites:** HOS 1100, REC 1000, REC 2050, REC 2400 or REC 3000 or permission of instructor. **Grading:** A-F grading only.

REC 4702 - Facilitating Adventure-Based Outdoor Leadership Programs

Units: 4

Current principals, procedures, techniques and foundations in facilitating outdoor adventure-based counseling and leadership programs. Developing curriculum, group preparation, implementing and processing safe adventure experiences using low and high element ropes courses and natural resources. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

REC 4705 - Outdoor Adventure Recreation

Units: 4

Lecture, discussion, and participation in outdoor recreation activities. Includes rock-climbing, sailing, sea kayaking, orienteering, hiking, and mountain biking. Classes on five Saturdays, dates and locations to be announced.

REC 4896 - Recreation Management Internship Placement

Units: 2

Internship placement, must meet with advisor two quarters before intended internship, interview with intern sites, get a signed contract. **MUST** successfully complete LiveSCAN, including background check and fingerprinting. Interviewing techniques, networking and professional expectations will be discussed with advisor. **Prerequisites:** *Completion of all core and elective classes, or permission of instructor.*

REC 4897 - Recreation Therapy Internship Placement

Units: 2

To secure an internship placement in an approved site with a certified therapist, students must meet with advisor a minimum of two quarters before intended internship, interview with intern sites, and get a signed contract. Written assignments are required to successfully complete this process. Students **MUST** successfully complete LiveSCAN, including background check and fingerprinting. Interviewing techniques, networking and professional expectations will be discussed with advisor. Online requirements are similar with interaction with faculty done virtually. **Prerequisites:** *All major and department core classes complete or permission of the chair and the instructor.* **Grading:** *CR/NC grading only.*

REC 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

REC 4910 - Recreation Management Internship and Senior Project

Units: 4-12

Field experience in recreation organizations in preparation of a professional role. Supervision by agency and university personnel. Minimum of 400 hours and senior project. Student must complete a minimum of 12 hours of credit and a total of 400 hours. **Prerequisites:** *Completion of all core and elective classes, or permission of instructor.* **Repeatability:** May be repeated six times for credit with consent of instructor, for a maximum of 24 units. **Grading:** *CR/NC grading only.*

REC 4911 - Recreation Therapy Internship and Senior Project

Units: 12

Field experience in recreation therapy agency. Supervision by agency and university personnel. Minimum of 600 hours and senior project. Supervisor must be NCTRC certified. **Prerequisites:** *Completion of all core and elective classes, or permission of instructor.* **Repeatability:** May be repeated once for credit with consent of instructor, for a maximum of 24 units. **Grading:** *CR/NC grading only.*

REC 4913 - Senior Special Project

Units: 12

Large special project designed with the interests of the students and the needs of the department, this project will make a significant contribution to the life of the department, the campus or a community. This is especially designed for those nontraditional students with full time employment who cannot complete our traditional internship. It is NOT for people wanting to pursue future employment in a traditional Parks and Recreation position. **Grading:** *A-F grading only.*

Recreation and Tourism: Graduate

REC 6000 - Research Methods in Leisure Studies

Units: 4.5

Theory of qualitative and quantitative research and their design methodologies. Essential elements of applied research in the field of leisure, including statistical analyses. **Prerequisites:** *Graduate standing or consent of instructor.*

REC 6100 - Philosophical Foundations and Theories of Leisure

Units: 4.5

Examination of leisure theories through time, history of the profession. Organizational and community contexts of leisure, roles and socialization, natural and constructed environments. The relationship of leisure to family, work, subcultures, and resources. **Prerequisites:** *Graduate standing or consent of instructor.*

REC 6200 - Strategies in Staff Supervision

Units: 4.5

Examination of basic motivation, individual differences (including culture, race, ability, sexual orientation), employee growth, and social interaction. Implications for developmental intervention and human services. **Prerequisites:** *Graduate standing or consent of instructor.*

REC 6300 - Organizational Development in Leisure

Units: 4.5

Exploration of the strategic role of systems theory in organizational development and the wider scope of creating strong communities through systems in recreation and leisure services. **Prerequisites:** *Graduate standing or consent of instructor.*

REC 6400 - Current Management Topics in Leisure

Units: 4.5

Examination of post-industrial management practices and emerging fields of study that influence the management of recreation and leisure organizations. **Prerequisites:** *Graduate standing or consent of instructor.*

REC 6500 - Critical Analysis of Leisure Research

Units: 4.5

An analysis of leisure research and its application in the work of leisure professionals. Examination of recent research in leisure and its appropriate application into the best practices in the field. **Prerequisites:** *REC 6000, Graduate standing, or consent of instructor.*

REC 6601 - Planning, Development, and Management of Sustainable Tourism

Units: 4.5

Course Content: Tourism's positive and negative impacts and the importance of best sustainable practices on the effectiveness of protecting, sustaining, and conserving tourism destinations and businesses. **Online course.** **Prerequisites:** Graduate standing or consent of instructor. **Credit Restrictions:** Not open to students with credit for REC 6600. **Grading:** A-F grading only.

REC 6700 - Advanced Social Justice and Professional Ethics

Units: 4.5

Exploration of theories of social justice and equity underlying societal, political, and economic conditions which affect the leisure field. Strategies to identify and rectify injustices. Investigation of professional ethics. **Prerequisites:** *Graduate standing or consent of instructor.*

REC 6800 - Strategic Leadership in Leisure

Units: 4.5

Study of leadership of large, multifaceted organizations, including establishment of organizational structure, allocation of resources, and communication of strategic vision. Leisure's potential positive impact on current societal problems. **Prerequisites:** *REC 6000, REC 6100, REC 6200, REC 6300, REC 6400, REC 6500, REC 6700; Graduate standing or consent of instructor.*

REC 6901 - Graduate Synthesis

Units: 4.5

Problem definition, review of literature, data collection and analysis, and findings for developing a field-based project in leisure management. Must be advanced to candidacy. **Prerequisites:** *REC 6000, REC 6100, REC 6200, REC 6300, REC 6400, REC 6500, REC 6700.* **Credit Restrictions:**

REC 6909 - Departmental Thesis

Units: 4.5

Development and writing of a research paper for submission to the department, which specifies its format. Supervision by a department committee, at least one of whom must be a member of the graduate faculty. Oral defense is required. Must be advanced to candidacy. **Prerequisites:** *REC 6000, REC 6100, REC 6200, REC 6300, REC 6400, REC 6500, REC 6700.*

REC 6999 - Issues in Recreation and Tourism

Units: 4

Readings, discussion, research, and applications on contemporary and/or significant issues in Recreation and Tourism. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Social Work

SW 4999 - Social Work as a Lifelong Career

Units: 4

Introduction to the nature of the Social Work profession to guide students in making an informed decision whether or not this is a career path that meets their goals. Employment opportunities in micro, mezzo, and macro settings after earning the MSW will be discussed. **Credit Restrictions:** Not for credit in the Social Work major.

Social Work: Graduate

SW 5900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 8 units.

SW 6000 - Human Behavior and Social Environment I

Units: 4

Theoretical perspectives examining human development and behavior across the life span including the analysis of the influence of social, political, historical, and cultural variables. Processes associated with physiological, psychological, cognitive, and social development over the life span from birth through adolescence. **Co-requisites:** SW 6010.

SW 6001 - Human Behavior and Social Environment II

Units: 4

Builds upon knowledge regarding theoretical perspectives explaining human development and behavior across the life span including influences of social, political, historical, and cultural variables. Includes normative physiological, psychological, cognitive, and social development from young adulthood to death. **Prerequisites:** SW 6000 **Co-requisites:** SW 6011.

SW 6010 - Race, Gender and Inequality in Social Work Practice

Units: 4

The impact of race, racism, gender, sexism, and inequality in social work practice on diverse ethnic/racial populations. Effective problem-solving when confronted with institutional barriers and interpersonal

conflicts in agency and community-based social work practice with minority populations. **Co-requisites:** SW 6020.

SW 6011 - Generalist Practice I

Units: 4

Theoretical and practice foundations for advanced social work. Prevention, crisis, and short-term intervention approaches focusing on translating theoretical understanding into multicultural service delivery and interventions with poor, vulnerable, and oppressed populations. **Prerequisites:** SW 6010 **Co-requisites:** SW 6021.

SW 6012 - Generalist Practice II

Units: 4

Assumptions, concepts, principles, and values of generalist practice examined from a cross-cultural perspective regarding professional relationships, social work roles, treatment processes, and service delivery models with individuals, families, groups, organizations, and communities. **Prerequisites:** SW 6011 **Co-requisites:** SW 6022.

SW 6013 - Generalist Practice III

Units: 4

Focus on macro-level practice in social work organizations and communities. Examination of administrative practice roles from the perspectives of strength, empowerment, and evidence. Assessment of community and agency capacities and needs. **Prerequisites:** SW 6011 and SW 6012.

SW 6020 - Field Instruction I

Units: 4

Supervised practice experience in a community social agency based on students' learning needs, interests, and option. Development of the foundation of generic interventive modalities in individuals, families, groups, and communities with emphasis on multicultural practice. **Co-requisites:** SW 6010.

SW 6021 - Field Instruction II

Units: 4

Continuation of supervised practice in a community social agency on an advanced level with individuals, families, groups, and communities with emphasis on multicultural practice. **Prerequisites:** SW 6020 **Co-requisites:** SW 6011.

SW 6022 - Field Instruction III

Units: 4

Continuation of supervised practice in community social agency on an advanced level of practice with individuals, families, groups, and communities with emphasis on multicultural practice. **Prerequisites:** SW 6021 **Co-requisites:** SW 6012.

SW 6030 - Social Welfare Policy : History and Philosophy

Units: 4

Theoretical and practice foundations for advanced social work with children, youth, women, and families. Prevention strategies, crisis and short-term approaches, specifically as they apply to key problems and issues faced by children, youth, women, and families. **Prerequisites:** SW 6010 **Co-requisites:** SW 6020.

SW 6032 - Social Welfare Policy: Research

Units: 4

The role of research in social work, the logic of research, the stages of underlying research process, various types of research designs, techniques of data collection and analysis, and strategies for evaluating service delivery in all areas of practice. **Prerequisites:** SW 6010 **Co-requisites:** SW 6022.

SW 6400 - Title IV-E Seminar

Units: 1

Culminating experience integrating policy, practice, and research relating to child protective services. Open to Title IV-E Program students only.

SW 6405 - Community Mental Health Seminar

Units: 1

Culminating experience integrating policy, practice, and research relating to mental health services. Open to CalSWEC II Program students only. Open to Title IV-E Program students only.

SW 6500 - Advanced Micro Practice: Children, Youth, and Families

Units: 4

Strategies of casework management with children, youth, and families. Principles of small and large group management, time management, coordination of services, and interagency cooperation. Issues of controlling, coordinating, directing, and planning services for clients in urban and suburban settings. **Prerequisites:** SW 6010 **Co-requisites:** SW 6530.

SW 6505 - Advanced Micro Practice: Community Mental Health

Units: 4

Strategies of casework management in a mental health context. Principles of small and large group management, time management, coordination of services, and interagency cooperation. Additional issues include controlling, coordinating, directing, and planning service delivery in urban and suburban communities. **Prerequisites:** SW 6010 **Co-requisites:** SW 6530.

SW 6510 - Advanced Mezzo Practice: Children, Youth, and Families

Units: 4

Theory and practice with ethnically, racially, and religiously diverse populations utilizing a multi-dimensional multi-cultural framework and case materials to analyze treatment issues and empowerment strategies for children, youth, and families. **Prerequisites:** SW 6010 **Co-requisites:** SW 6531.

SW 6515 - Advanced Mezzo Practice: Community Mental Health

Units: 4

Theory and practice with ethnically, racially, and religiously diverse populations utilizing a multidimensional, multicultural framework and case materials to analyze treatment issues and empowerment strategies in community mental health. **Prerequisites:** SW 6010 **Co-requisites:** SW 6531.

SW 6520 - Advanced Policy Practice: Children, Youth, and Families

Units: 4

Discussion of child, youth, and family policy in the United States and California. Focus on development of advanced skills in policy analysis and advocacy. **Prerequisites:** SW 6030.

SW 6525 - Advanced Policy Practice: Community Mental Health

Units: 4

Discussion of mental health policy in the United States and California. Focus on development of advanced skills in policy analysis and advocacy. **Prerequisites:** SW 6030.

SW 6530 - Field Instruction IV

Units: 4

Supervised social work practice in a community agency with focus on advanced direct practice skills and administrative program development areas with emphasis on multi-cultural practice. **Prerequisites:** SW 6022 **Co-requisites:** SW 6909.

SW 6531 - Field Instruction V

Units: 4

Continued supervised social work practice in a community agency at an advanced level in direct practice and administration within student's area of concentration. Preparation for professional employment with emphasis on multicultural practice. **Prerequisites:** SW 6530 **Co-requisites:** SW 6909.

SW 6532 - Field Instruction VI

Units: 4

Continued supervised social work practice in a community agency at an advanced level in direct and indirect practice and administration within student's area of concentration. Preparation for professional employment emphasizing multicultural practice. **Prerequisites:** SW 6531 **Co-requisites:** ACCT 6540.

SW 6550 - Social Work Psychosocial Rehabilitation

Units: 4

Concepts of philosophy of psychosocial rehabilitation as the dominant modality in contemporary community mental health programs. Principles of crisis intervention, particularly in relation to the prevention of suicide and family violence. **Prerequisites:** SW 6010 **Co-requisites:** SW 6530 or SW 6532.

SW 6552 - Legal Issues in Social Work Practice

Units: 4

Legal aspects concerning children, family, and the aged, considering issues such as abortion, illegitimacy, right to treatment, mental health commitment procedures, rights of the elderly, children's rights, marriage, and divorce. Familiarity with legal assistance programs. **Prerequisites:** SW 6010 **Co-requisites:** SW 6530 or SW 6532.

SW 6553 - Assessment and Treatment of Substance Abuse

Units: 4

Social work practice with individual alcoholics and substance abusers, their family systems, and their community network. Awareness of the prevalence of alcoholism and substance abuse and significance for clinical social work practice. Dynamics and treatment of disease. **Prerequisites:** SW 6010 **Co-requisites:** SW 6530 or SW 6532.

SW 6555 - School Social Work

Units: 4

Social work and the public school as a process in school-community-pupil relations. Attention to school as a social institution and its organization. Social work services in schools as a specialized field of social work practice. **Prerequisites:** SW 6010 **Co-requisites:** SW 6530 or SW 6532.

SW 6556 - Human Sexuality and Social Work

Units: 4

Exploration of human sexuality and how social workers relate to sexually-oppressed groups. Surveys a range of sexuality-related issues encountered in therapeutic relationships as part of administrative duties and at the policy level. **Prerequisites:** SW 6010 **Co-requisites:** SW 6530 or SW 6532.

SW 6560 - Family Violence Across the Lifespan

Units: 4

Advanced study of violence against children, partners, and the elderly. **Prerequisites:** Successful completion of first two quarters of M.S.W. program.

SW 6561 - Advanced Psychosocial Assessment and Diagnosis

Units: 4

Advanced study in psychosocial assessment and diagnosis of children, adolescents, and adults. Examination of person-in-environment and DSM IV-TR diagnosis. **Prerequisites:** *Successful completion of first two quarters of M.S.W. program.*

SW 6879 - Clinical/Casework Intervention with Military Personnel and their Families

Units: 4

Explores the many ways in which issues related to military service, combat and deployment affect service members and their families. A bio-psycho-social framework will be used in developing strategies to assist military service personnel and their families.

SW 6900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 16 units.

SW 6909 - Departmental Thesis

Units: 4

Developing and writing a research paper for submission to the department, which specifies its format. Supervision by a departmental faculty member. Oral defense is required. **Prerequisites:** *SW 6935, advancement to Candidacy, and consent of faculty advisor.*

SW 6910 - University Thesis

Units: 4

Completion of a formal research paper for submission to the university in the specified format. Supervision by a faculty committee, chaired by a regular member of the department. Oral defense required. **Prerequisites:** *SW 6932, advancement to Candidacy, and consent of faculty advisor.* **Repeatability:** Must be repeated once for credit for a total of 8 units.

SW 6932 - Qualitative and Quantitative Analysis

Units: 4

Social work practice research paradigms, models, and methods. Emphasis on quantitative and qualitative analyses in evaluation of social work practice. **Prerequisites:** *SW 6032.*

SW 6935 - Program Evaluation

Units: 4

Application of social work knowledge, values, and skills in planning and conducting an independent, substantive evaluation of a human services program. **Prerequisites:** *SW 6932.*

SW 6959 - Integrative Seminar

Units: 4

Capstone experience integrating knowledge in practice, policy, and research. Written project required.

Prerequisites: SW 6935, advancement to Candidacy, and consent of faculty advisor.

SW 6962 - Writing for Social Work

Units: 2

Support of student writing by reviewing the basic tenets of APA format and working on the most important tenets of good writing: developing a clear thesis, accessing and citing published research, building content, and writing proficiently.

SW 6963 - Disabilities and Social Work

Units: 4

Social work practice with individuals and families across spectrum of disability including, genetic conditions, developmental delay, intellectual disability, physical disability, chronic medical conditions. Working with individuals in social service systems, such as regional centers, mental health, and primary medical care.

SW 6964 - Practice with Lesbian, Bi-Sexual, Gay, Transgendered and Questioning Populations

Units: 4

Introduction to the LGBTQ culture, exploration of the heterosexist aspects of society and the ethics and diversity issues that arise when working with the LGBT community. Review of the research and practice models that define homosexuality in relation to human sexuality and development.

SW 6999 - Issues in Social Work

Units: 1-4

Readings, discussion, and research on contemporary and/or significant issues in social work.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.

Sociology

SOC 1000 - Introduction to Sociology

Units: 4

Introductory analysis of (a) the structure and functioning of human groups and (b) interrelations between groups; changes in (a) and (b). **Credit Restrictions:** Not open to students with credit for SOC 1002.

SOC 1002 - Introduction to Sociology of Individual and Society

Units: 4

Introductory analysis of (a) the structure and functioning of human groups and (b) interrelationships

between groups emphasizing influences on the individual; changes in (a) and (b). **Credit Restrictions:** Not open to students with credit for SOC 1000.

SOC 3000 - Introduction to Sociological Research

Units: 4

Methodological problems in sociology in relation to the analysis of social organizations; research strategies; utilization of associated laboratory exercises to illustrate the important aspects of the research process in sociology. **Prerequisites:** SOC 1000 (or SOC 1002).

SOC 3100 - Seminar in Human Ecology

Units: 4

Introduction to theory and research on human ecosystems, with their interrelated components of population, environment, technology, and organization. Forms of social organization which result from the interaction of the components. **Prerequisites:** SOC 1000 (or SOC 1002).

SOC 3200 - Social Demography

Units: 4

Population growth, distribution and composition. Introduction to population theories and analytic techniques. Individually supervised student projects. **Prerequisites:** SOC 1000 (or SOC 1002).

SOC 3230 - Sociology of Food

Units: 4

Social processes in what, how and why we eat with emphasis on food production and consumption as instruments of social differentiation, identities and power. **Prerequisites:** SOC 1000 or consent of instructor.

SOC 3310 - Sociological Theory

Units: 4

Critical analysis of the works of leading sociological theoreticians from the middle of the 19th century to the present. **Prerequisites:** SOC 1000 (or SOC 1002).

SOC 3410 - Sociology of the Family

Units: 4

The family with respect to its institutional, organizational and interactional character. Comparative study and analysis. **Prerequisites:** SOC 1000 (or SOC 1002).

SOC 3411 - Sociology of Gender

Units: 4

Focus on theory and research that explains the formation of gender identities and the institutionalization

of gender inequality. Addresses the cultural and structural dimensions of gender patterns in private and public spheres. **Prerequisites:** *SOC 1000 (or SOC 1001, SOC 1002, SOC 2001 or SOC 2002).*

SOC 3412 - Marriage and Sex

Units: 4

Social norms and practices surrounding marriage, love, and sex in American society. Emphasis on premarital sex, mate selection, marital compatibility, marital power, and marriage in the middle and later years.

SOC 3413 - Sociology of Parenting

Units: 4

Exploration of practical and theoretical issues in contemporary parenting. Various approaches to childrearing examined and critiqued from a sociological perspective. Parent-child interaction, working mothers, nurturing fathers, single parenting, joint custody, family systems, blended families, and society's impact on parenting.

SOC 3415 - Sociology of the African American Family

Units: 4

Sociological analysis of the African American family and family life. Emphasis on sociological theory and research focusing on African American families and family life. Application of social systems approach emphasizing the interrelationships of social and institutional structure with the various subsystems of the African American family. **Prerequisites:** *SOC 1000 (or SOC 1002).*

SOC 3418 - Mediation

Units: 4

In-depth theoretical and practical training in the mediation process and mediation skills; approaches to conflict resolution in diverse families and communities, and between individuals and companies.

Grading: *A-F grading only.*

SOC 3419 - Death and Dying

Units: 4

Trends and patterns in death and dying including historical perspectives, death in popular culture, demography of death, medical technology and dying, dying patient's perspective, survivors, and ethical dilemmas of death and dying.

SOC 3420 - Social Inequality

Units: 4

Nature, origins, forms, and consequences of structured inequalities. Focus on the material circumstances, life styles, and life chances of social classes, including minorities. **Prerequisites:** *SOC 1000 (or SOC 1002).*

SOC 3424 - Sociology of Sport

Units: 4

Sociological analysis of sport as a social institution that exists in relationship with other local and global social institutions. Examines reciprocal linkages between sport, and culture, systems of inequality, and social mobility. **Grading: A-F grading only.**

SOC 3425 - Prejudice and Discrimination

Units: 4

Identifying overt, covert, and subtle discrimination, prejudice, stereotyping, and scapegoating on the basis of such factors as race, sex, class, disability. Legislative and social policy remedies, outcomes.

SOC 3431 - Global Society

Units: 4

Sociological examination of the global world with an emphasis on one or more of the following topics: culture, social identity, and global forces; global economic and political practices; technology and local/global labor markets; economic crises and political unrest; power relations and global inequalities; the environmental impacts of globalization.

SOC 3480 - Violence and Conflict

Units: 4

Conduct, causes, and consequences of violent conflicts between individuals, groups, organizations, communities, societies. Resolution techniques utilizing violence, nonviolence, mediation, peacekeeping. **Prerequisites: SOC 1000 (or SOC 1002).**

SOC 3500 - Social Psychology

Units: 4

Current theory and research on the individual in society, small groups, complex organizations, and interpersonal interaction. Socialization, social structure, attitude formation, and group structure. **Prerequisites: SOC 1000 (or SOC 1002).**

SOC 3507 - Filipino American Communities

Units: 4

Sociological analysis of the construction of Filipino American communities. Emphasis on the economic realities of Filipino American communities in the Bay Area.

SOC 3510 - Sociology of Identity

Units: 4

The social nature and bases of identity formation in groups and individuals, including the changing

identities of race, ethnicity, nationality, gender, sexuality, consumption, and class. Historical perspective on the problematization of identity resulting from shifts in social, cultural, economic, technological, and power relations in the United States and the world including the phenomenon of transnationalism.

SOC 3520 - Sociology of Race and Ethnic Relations

Units: 4

Examination of race and ethnic relations in historical and contemporary perspectives. Focus on the social formation of race and ethnic identity and on competing theories and debates about the institutionalization of the American ethno-racial hierarchy.

SOC 3525 - The African American Male

Units: 4

Sociological analysis of the adolescent African American male in the urban United States. Application of the social systems approach with special emphasis on the role of race, class, family, and institutional structures in the adolescent African American male. **Prerequisites:** SOC 1000 (or SOC 1002).

SOC 3530 - Continuity and Change in Brazilian Society - Study Abroad

Units: 4

On-site exploration of Latin America's largest country from Portuguese colony to the present global power, including: origins of a multi-ethnic society, transition from monoculture to industry, authoritarian and democratic trends, legacy of slavery. Summer Abroad Only **Grading:** A-F Only

SOC 3550 - Filipino Labor/Immigration

Units: 4

Sociological analysis of Filipino labor and immigration. The impact on work and employment of global restructuring and postmodern condition on Filipinos particularly in North America.

SOC 3555 - Asian American Family Patterns

Units: 4

(See ES 3555 for course description.)

SOC 3610 - Sociology of Religion

Units: 4

Functions of religion in society, the interrelations between religion and social structure, religious authority and leadership, the nature of religious movements. **Prerequisites:** SOC 1000 (or SOC 1002).

SOC 3612 - Sociology of Immigration

Units: 4

Examination of the political, cultural and social dynamics of U.S. immigration exploring such topics as: processes of settlement and incorporation; institutional responses to immigration; prejudice and discrimination against immigrants; immigration's impact on identity; and intergenerational tensions.

Grading: *A-F grading only.*

SOC 3614 - Community Engagement with Immigrant High School Students

Units: 4

Probes the dynamics of immigrant experiences, explores the complications of English-language acquisition, and examines immigrant acculturation into the U.S. education system. Community engagement includes volunteering in a Bay Area high school that serves immigrant students. **Strongly Recommended:** *SOC 3612 strongly recommended; these courses can be taken concurrently.* **Grading:** *A-F grading only.*

SOC 3620 - Sociology of Education

Units: 4

Institutional character of education; the relationship of education as a social institution to aspects of political, economic and family organization; social relations within the school; school culture and roles.

Prerequisites: *SOC 1000 (or SOC 1002).*

SOC 3700 - Introduction to Social Services

Units: 4

Introduction to the contemporary and historical nature of social service agencies in the United States, and the delivery of services to children, families, the elderly, and other populations in need. Direct and indirect roles of workers in the social services and the profession of social work.

SOC 3710 - Social Policy

Units: 4

Contemporary and historical nature of social policy in the United States, emphasizing at-risk populations and disenfranchised groups. Social problems such as homelessness, child abuse, poverty, and immigration.

SOC 3712 - Sociology of Travel and Tourism

Units: 4

Sociological examination of the travel and tourist industry. Topics may include link between tourism and cultural commodification and impact of tourist industry on global relations of power and privilege; local/global culture and sociocultural identities. **Grading:** *A-F grading only.*

SOC 3720 - Human Behavior in the Social Environment

Units: 4

Primary theories of human behavior and developmental stages across the life span. Special attention to the interplay between human development and social environment.

SOC 3730 - Juvenile Delinquency

Units: 4

Juvenile justice system and the theories seeking to explain juvenile delinquency. Various methods used to prevent, treat and rehabilitate youthful offenders. **Prerequisites:** SOC 1000 (or SOC 1002).

SOC 3745 - Social Deviance

Units: 4

Formation and composition of various subcultures whose norms and values conflict with those of wider society. **Prerequisites:** SOC 1000 (or SOC 1002).

SOC 3750 - Alcohol and Drug Abuse

Units: 4

Social issues involved in alcohol and drug abuse with assessment of sociological theories of drug abuse and prevention. Social problems associated with misuse of alcohol, narcotics, and other drugs.

SOC 3880 - Work and Professions

Units: 4

Research and theory on the social transformation of work and professions, structure of labor markets, occupational choice, work and social stratification, historical division of labor. Significance of race, ethnicity, gender, and age in relation to work and professions. **Prerequisites:** Upper-division standing and SOC 1000 (or SOC 1002); or consent of instructor.

SOC 3890 - Sociology of Organizations

Units: 4

The structure and social dynamics of organizations. Social sources of stratification, cohesion, conflict and change within varying contexts such as business, government, religion, education, and politics.

Prerequisites: Upper-division standing and SOC 1000 (or SOC 1002); or consent of instructor.

SOC 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** At least a 2.0 GPA; departmental approval of activity.

Repeatability: May be repeated for credit, for a maximum of 8 units. Only a maximum of 4 units may be applied to the Sociology major; only a maximum of 4 units may be applied to the Sociology minor.

Grading: CR/NR grading only.

SOC 3999 - Issues in Sociology and Social Services

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in sociology and social services. **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

SOC 4111 - Methods of Sociological Research I

Units: 4

The nature and application of the scientific method in social research. The use of different techniques for specific problems; descriptive and analytical procedures employing the statistical, the historical, and comparative methods. Use of such research instruments as the interview, the questionnaire, and observation. Analysis of data and reporting of results. Individual projects. **Prerequisites:** SOC 1000 (or SOC 1002); STAT 1000.

SOC 4112 - Methods of Sociological Research II

Units: 4

The design of sociological studies. Advanced problems of sampling and measurement. Individual projects and instruction. **Prerequisites:** SOC 4111.

SOC 4200 - Sociology of Sexualities

Units: 4

Sociological analysis of the social construction of sexuality including: intersection of race, class, gender and sexuality; link between power and dominant norms that inform sexual identity and practices; and role of empowerment in generating alternative identities and practices. **Grading:** A-F grading only.

SOC 4400 - Sociology of Culture

Units: 4

Sociological analysis of historical and contemporary culture with attention to issues of culture and power, production of culture, status and cultural consumption, audience reception, and social change. **Prerequisites:** Upper-division standing and SOC 1000 (or SOC 1002); or consent of instructor.

SOC 4422 - Environmental Sociology

Units: 4

Introduction to environmental justice theory and practice. Examines critical studies of environmental racism and other forms of ecological injustice. Probes claims made by diverse groups and examines policy and civil society responses that address perceived environmental inequity and injustice. While focused mainly on the United States, international issues and perspectives are also considered. **Grading:** A-F grading only.

SOC 4450 - Urban Sociology

Units: 4

Development of metropolitan areas as distinctive patterns; problems presently facing this population in urban growth, transportation, race relations, poverty, housing, and education. **Prerequisites:** SOC 1000 (or SOC 1002).

SOC 4452 - Economy & Society

Units: 4

Analysis of the relationship between economy and society with special attention paid to the evolution of economic practices that influence consumer debt, financial crises, and economic inequality. **Grading:** A-F grading only.

SOC 4716 - Social Work Theories and Methods

Units: 4

Methods and skills of professional practice in preparation for Field Practicum, with emphasis on individuals, small groups, and communities from a transcultural perspective. Techniques of casework, group work, and community organization. **Prerequisites:** SOC 3700.

SOC 4718 - Field Practicum

Units: 4

Placement of students in suitable social services agencies with supervised instruction. Twelve hours per week required in placement. **Prerequisites:** Senior standing, SOC 3700, SOC 4716, and consent of instructor. **Co-requisites:** SOC 4719. Only open to Sociology majors with Sociology, Social Services Option, B.A. **Repeatability:** Must be repeated once. **Grading:** CR/NC grading only.

SOC 4719 - Field Practicum Seminar

Units: 2

Seminar to be taken concurrently with SOC 4718. Relates field practicum experiences to social work practice and principles. **Prerequisites:** Senior standing, SOC 3700, SOC 4716, and consent of instructor. **Co-requisites:** SOC 4718. Only open to Sociology majors with Sociology, Social Services Option, B.A. **Repeatability:** Must be repeated once.

SOC 4720 - Medical Sociology

Units: 4

Sociocultural and interactional components in the etiology and treatment of illness (physiological, psychosomatic and "mental"); medical and paramedical professions. **Prerequisites:** SOC 1000 (or SOC 1002).

SOC 4730 - Police and Society

Units: 4

The role police play as agents of formal social control. Emphasis on the relationship between police management and social change.

SOC 4750 - Child Welfare

Units: 4

Trends in public policy regarding programs for the protection and care of the child in American society. Conditions pertinent to the socialization of the child; the implications of these conditions for the development of such programs as foster care, adoptions, institutions, school social work, and corrections.

Prerequisites: *SOC 1000 (or SOC 1002).*

SOC 4790 - Social Control and Society

Units: 4

Methods and strategies by which societies regulate behavior. Variation in social control by social location, with an emphasis on race, class and gender. Implications for justice, equality and civil rights.

Prerequisites: *SOC 1000 or consent of instructor.*

SOC 4800 - Topics Seminar

Units: 4

Contributions of sociological theories, methods, and perspectives to selected topics beyond regular courses. Requires individual research. **Prerequisites:** *Upper-division standing and SOC 1000 (or SOC 1002).; or consent of instructor.* **Repeatability:** May be repeated once for credit when content varies, for a maximum of 8 units.

SOC 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Sociology: Graduate

SOC 6111 - Advanced Sociological Research Methods I

Units: 4

Application of scientific methods to the analysis of social phenomena, methodological orientations in sociology, types of research procedure, nature of sociological variables and their statistical treatment.

Prerequisites: *"Classified Graduate" standing and consent of instructor.*

SOC 6112 - Advanced Sociological Research Methods II

Units: 4

Development of individual projects, illustrating study designs, applications of scientific method in the

collection, analysis, and presentation of data at advanced levels. **Prerequisites:** *"Classified Graduate" standing; SOC 6111.*

SOC 6311 - Seminar in Sociological Theory I

Units: 4

Advanced study of classical sociological theory and related contemporary developments. **Prerequisites:** *"Classified Graduate" standing or consent of instructor.*

SOC 6312 - Seminar in Sociological Theory II

Units: 4

Contemporary thematic and conceptual issues in the study of class, gender, race, and other categories of difference and inequality. Application of issues to development of students' interests and thesis topics.

Prerequisites: *"Classified Graduate" standing; SOC 6311.*

SOC 6800 - Topics Seminar

Units: 4

Presentation of selected topics beyond regular courses. Subject will vary from time to time. **Prerequisites:** *"Classified Graduate" standing and consent of instructor.* **Repeatability:** May be taken three times for credit when content varies, for a maximum of 16 units.

SOC 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 3.0 GPA; departmental approval of activity.*

Repeatability: May be repeated for credit, for a maximum of 8 units. A maximum of 4 units will be accepted toward the Sociology major.

SOC 6900 - Independent Study

Units: 1-4

SOC 6908 - Thesis Development

Units: 1-4

Development and writing of a research paper in preparation for completing a departmental or university thesis. Supervision by a faculty committee, chaired by a regular member of the department. **Prerequisites:** *Graduate standing; must be advanced to candidacy; must have secured thesis committee chair's written approval.*

Repeatability: May be repeated once for credit, for a maximum of 8 units.

SOC 6909 - Departmental Thesis

Units: 1-4

Completion of a research paper for submission to the department, which specifies its format. Supervision by a faculty committee, chaired by a regular member of the department. Oral defense normally required.

Prerequisites: *Graduate standing; SOC 6908.*

SOC 6910 - University Thesis

Units: 1-8

Completion of a formal research paper for submission to the university in the specified format. Supervision by a faculty committee, chaired by a regular member of the department. Oral defense normally required. **Prerequisites:** *Graduate standing; SOC 6908.*

SOC 6999 - Issues in Sociology

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in sociology. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Speech Pathology and Audiology

SPPA 2850 - Introduction to Communication Disorders

Units: 4

The nature of speech and language pathology. Acquisition of speech and language by children. Communication through the lifespan. Deviations from normal speech and language patterns, e.g., disorders of language, articulation, voice, language difference in a multicultural society, and stuttering.

SPPA 3852 - Speech, Language and Communication Development Across the Lifespan

Units: 4

Study of the acquisition and development of speech, language and communication from infancy through adulthood in typically developing individuals. Topics are phonology, articulation, language, pragmatic skills, nonverbal communication, and development and changes in these abilities across the lifespan.

SPPA 3854 - Anatomy and Physiology of Speech

Units: 4

Study of the anatomy, physiology, and neurology of the speech mechanism; respiration, phonation, articulation, and resonance with emphasis on normal processes. Must complete with a grade of "B" (3.0) or better to meet prerequisites for SPPA 4000 level courses. **Prerequisites:** *SPPA 2850, SPPA 3852; BIOL 1001, BIOL 2010.* **Repeatability:** May be repeated once for credit for a maximum of 8 units.

SPPA 3855 - Phonetics

Units: 4

Study of physiologic foundations of vowels, consonants, diphthongs in American English. Development of ability to transcribe phonetically speech dialects and various articulatory patterns. Must complete with a grade of "B" (3.0) or better to meet prerequisites for SPPA 4000 level courses. **Repeatability:** May be repeated once for credit for a maximum of 8 units.

SPPA 3856 - Observation of Clinical Procedures in Communicative Disorders

Units: 2

Supervised observations, discussions, and written critiques of diagnosis and treatment sessions. Must be taken once during first year in the major. May be repeated once for credit for a maximum of 4 units; only two units will apply to the major. **Grading:** *CR/NC grading only.*

SPPA 3859 - Theory and Practice of Audiology I

Units: 4

Anatomy and physiology of the outer and middle ear systems with emphasis on their clinical correlates; the nature of sound and hearing. Audiology as a profession. Practical experience with diagnostic audiologic evaluation and interpretation. Must complete with a grade of "B" (3.0) or better to meet prerequisites for SPPA 4000 level courses. **Repeatability:** May be repeated once for credit for a maximum of 8 units.

SPPA 3860 - Theory and Practice of Audiology II

Units: 4

Anatomy and physiology of inner ear and auditory pathways, with emphasis on clinical correlates. Theories of hearing and methods for screening audiologic function. Practical experience with audiologic evaluation and interpretation. **Prerequisites:** *SPPA 3859.*

SPPA 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; departmental approval of activity.*

Repeatability: May be repeated for credit, for a maximum of 8 units. Not applicable to the Speech Pathology major; a maximum of 2 units will be accepted toward the Speech Pathology minor. **Grading:** *CR/NC grading only.*

SPPA 3999 - Issues in Speech Pathology and Audiology

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in speech pathology and audiology. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

SPPA 4120 - Aural Rehabilitation for Au.D.

Units: 4

Ecological, interactive approaches to preventing and/or minimizing limitations on everyday living resulting from impairment in auditory function. Current clinical practices in hearing aid fitting, cochlear implants, assistive devices and hearing protection. **Prerequisites:** *SPPA 3854, SPPA 3855 and SPPA 3859, each with a "B" (3.0) or better. Open only to CSD students in Au.D. preparation track.*

SPPA 4852 - Clinical Methods and Procedures in Communicative Disorders

Units: 3

Basic principles of client treatment and management, including structuring the therapy session, designing therapy hierarchies, collecting data, working with families, reinforcing correct behavior and documenting outcomes. **Prerequisites:** *Senior standing. SPPA 3854, SPPA 3855 and SPPA 3859, each with a "B" (3.0) or better.* **Repeatability:** *May be repeated once for credit for a maximum of 6 units; only 3 units will apply to the major.* **Grading:** *A-F grading only.*

SPPA 4854 - Diagnosis of Speech and Language Disorders

Units: 4

Theory and practice in the assessment of speech and language disorders. Lab observation assignment required. **Prerequisites:** *SPPA 2850, SPPA 3852. SPPA 3854, SPPA 3855 and SPPA 3859, each with a "B" (3.0) or better; HDEV 4110 or PSYC 4420; 20 hours of supervised observation; and senior or graduate standing.*

SPPA 4856 - Practicum in Speech-Language Pathology

Units: 3

Development, implementation and evaluation of individualized therapy programs for clients in the Speech, Hearing and Language Clinic. Practice in report writing and oral case presentations. **Prerequisites:** *SPPA 3854, SPPA 3855, SPPA 3859, SPPA 4852 or SPPA 6052; and SPPA 4854 or SPPA 6854, each with a "B" (3.0) or better and permission of department.*

SPPA 4859 - Evidence-based Practice in Communicative Sciences and Disorders

Units: 4

Contemporary understanding of evidence-based practice in speech pathology and audiology. Combination of research evidence, clinician expertise, client values, and individual client attributes to guide decision-making in everyday clinical practice. **Prerequisites:** *SPPA 3854, SPPA 3855, SPPA 3859, SPPA 4852 or SPPA 6052, each with a "B" (3.0) or better and senior or graduate standing.*

SPPA 4861 - Hearing Assessment: Instrumentation and Behavioral

Units: 5

Theory and application of the fundamentals of pure tone and speech audiometric procedures basic to identification audiometry and differential diagnosis of peripheral auditory disorders. **Prerequisites:** *SPPA 3854, SPPA 3855 and SPPA 3859, each with a "B" (3.0) or better.*

SPPA 4862 - Organic and Low Incidence Speech Disorders

Units: 4

Speech and communication disorders of low incidence in the population or individuals with organic etiologies. Characteristics, diagnosis and treatment for persons with voice disorders, cerebral palsy, cleft palate, head and neck cancer and other syndromes. **Prerequisites:** SPPA 3854, SPPA 3855 and SPPA 3859, each with a "B" (3.0) or better. Senior or graduate standing.

SPPA 4863 - Articulation and Phonological Disorders

Units: 4

Systematic study of children's speech disorders resulting from deviant articulation and/or phonological rule systems. Critical review of articulation and phonological assessments, theories, and treatments.

Prerequisites: SPPA 3854, SPPA 3855 and SPPA 3859, each with a "B" (3.0) or better; or consent of instructor.

SPPA 4865 - Language Disorders in Children

Units: 4

Causes and treatment of language disorders in children. Students observe treatment; learn to collect and analyze language samples, and to write training programs. **Prerequisites:** SPPA 3854, SPPA 3855 and SPPA 3859, each with a "B" (3.0) or better. SPPA 3852; PSYC 1000; HDEV 4110 or PSYC 4220; and senior or graduate standing.

SPPA 4866 - Neurocognitive Communication Disorders

Units: 4

Introduction to cognition, its components and disorders. Acquired neurogenic cognitive-communicative disorders such as aphasia, traumatic brain injury, right hemisphere syndrome, and dementia. Discussion of screening, assessment, and intervention for persons with cognitive-communicative disorders.

Prerequisites: SPPA 3854, SPPA 3855 and SPPA 3859, each with a "B" (3.0) or better. SPPA 4869.

SPPA 4867 - Speech Science

Units: 4

Fundamentals of sound production and transmission as related to speech. Theory of speech production, perception, acoustic and physiologic phonetics, and analysis of the acoustic properties of speech.

Prerequisites: SPPA 3854, SPPA 3855 and SPPA 3859, each with a "B" (3.0) or better; and senior or graduate standing.

SPPA 4868 - Cultural and Linguistic Diversity

Units: 4

Knowledge and skills essential for competently serving diverse clients with communication disorders. Basic information on health disparities, bilingualism and second language acquisition, principles of least-biased assessment, culturally sensitive interviewing and counseling strategies, conflict resolution, and culturally valid treatment techniques. **Prerequisites:** SPPA 3854, SPPA 3855 and SPPA 3859, each with a "B" (3.0) or better. SPPA 4852 or SPPA 6052, and senior or graduate standing.

SPPA 4869 - Neuroanatomy and Neurophysiology of the Speech, Language and Hearing Mechanism

Units: 4

Structural and functional descriptions and neurophysiology of the central and peripheral nervous system as it relates to normal development and to communication sciences and disorders. **Prerequisites:** SPPA 3854, SPPA 3855 and SPPA 3859, each with a "B" (3.0) or better. SPPA 4852 or SPPA 6052, and senior or graduate standing.

SPPA 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Speech-Language Pathology: Graduate

SPPA 6000 - Research Methods in Communicative Sciences and Disorders

Units: 4

Applied research methods in the field of communicative disorders, including literature search techniques, research designs, statistical tests, and scholarly report preparation. Required individual research project and written assignment. **Prerequisites:** SPPA 4859 and graduate standing **Co-requisites:** SPPA 4856 or SPPA 6056.

SPPA 6010 - Advanced Speech and Hearing Science

Units: 2

Selected topics in acoustic and physiological phonetics, speech perception and psychoacoustics with laboratory application in the analysis of normal and disordered speech and voice patterns. **Prerequisites:** SPPA 4867; and graduate standing.

SPPA 6020 - Vocal Pathology and Rehabilitation

Units: 4

Assessment procedures for differentiating various organic and non-organic laryngeal dysfunctions in adults and children and selection and application of appropriate treatment methods. **Prerequisites:** SPPA 4862 and SPPA 4867; and graduate standing.

SPPA 6030 - Clinical Organization and Management

Units: 2

Course description: Principles and procedures underlying patient enrollment, family counseling, and utilizing allied professions for adults and children in clinic and school settings. Organizing and administering speech and language programs following State and Federal regulations. **Prerequisites:** Graduate standing and consent of instructor.

SPPA 6040 - Advanced Seminar in Speech, Language and Communication Disorders

Units: 2

Selected topics in speech, language and hearing. Topics include autism, bilingualism, child language disorders, deafness, fluency, evaluation and management of hearing loss, acquired speech and language disorders. **Prerequisites:** *Graduate standing.* **Repeatability:** May be repeated two times for credit when content changes for a maximum of 6 units.

SPPA 6050 - Neurogenic Motor Speech Disorders: Adults and Children

Units: 4

Evaluation and treatment of the dysarthrias, apraxia of speech and speech and voice problems associated with acquired and developmental neuropathologies in children and adults. Evidence-based practice in assessment and treatment. **Prerequisites:** *SPPA 4852 or SPPA 6052; SPPA 4866; and graduate standing.*

SPPA 6052 - Clinical Methods and Procedures in Communicative Disorders

Units: 3

Basic principles of client treatment and management, including structuring the therapy session, designing therapy hierarchies, collecting data, working with families, reinforcing correct behavior, and documenting outcomes. Course includes 10 hours of supervised clinical observation. **Prerequisites:** *Graduate standing.*

SPPA 6055 - Aphasia and Related Neurogenic Language Disorders

Units: 4

Analysis of historical and current information relating brain dysfunction and language disorders. Observation; administering and interpreting standardized and nonstandardized assessment procedures, selecting treatment techniques, and collecting data for evidence-based practice treatment decisions. **Prerequisites:** *SPPA 4852 or SPPA 6052 and SPPA 4866 or its equivalent, and graduate standing.*

SPPA 6056 - Practicum in Speech-Language Pathology: Treatment

Units: 2

Development, implementation and evaluation of individualized therapy plans administered in both individual and group settings. Report writing and oral case presentations. **Prerequisites:** *SPPA 4852 or SPPA 6052 and SPPA 4854 or SPPA 6854, both with a "B" (3.0) or better; and graduate standing.* **Repeatability:** May be repeated three times for credit, for a maximum of 8 units.

SPPA 6057 - Practicum in Speech-Language Pathology: Assessment

Units: 2

Supervised clinical diagnosis of speech-language disorders including history taking, test administration, data analysis, patient counseling, oral and written case presentation. **Prerequisites:** *SPPA 6000; SPPA 4852 or SPPA 6052; graduate standing.*

SPPA 6060 - Advanced Study of Language Disorders in Children

Units: 4

Evaluation and treatment procedures applicable to clinic and classroom settings. Emphasis on the evaluation of semantic and pragmatic functions and the establishment of functional language.

Prerequisites: *SPPA 4852 or SPPA 6052; SPPA 4865; and graduate standing.*

SPPA 6064 - Fluency Disorders

Units: 4

Theories of etiology and therapeutic approaches to stuttering and cluttering disorders in adults and children. **Prerequisites:** *SPPA 4852 or SPPA 6052; and graduate standing.*

SPPA 6066 - Clinical Internship in Speech-Language Pathology

Units: 6

Field placement in supervised and approved settings such as public schools, hospitals, and community speech-language and hearing clinics. **Prerequisites:** *SPPA 4863, SPPA 4866, SPPA 6000, SPPA 6020, SPPA 6050, SPPA 6056, SPPA 6057, SPPA 6060, SPPA 6064; Internship Preference Form filed; and graduate standing.*

Repeatability: Must be repeated once for credit, for a maximum of 12 units.

SPPA 6070 - Augmentative/Alternative Communication-Assistive Technology for Speech-Language Pathologists

Units: 4

Principles of augmentative/alternative communication for both children and adults. Hardware, software, and peripheral equipment for assessment, system fittings, and intervention. Open to SPPA graduate students and Speech Pathology professionals. **Prerequisites:** *SPPA 4856 or SPPA 6056; SPPA 4865; and graduate standing.*

SPPA 6080 - Counseling Individuals with Speech, Language and Hearing Disorders

Units: 4

Counseling theory, models, processes, and strategies. Application of counseling strategies to individuals who present a variety of communicative disorders, and to the families of these individuals to assist them in living with communication disorders. **Prerequisites:** *SPPA 4852 or SPPA 6052, and graduate standing.*

SPPA 6156 - Practicum in Audiologic Assessment

Units: 2

Supervised clinical diagnosis of hearing disorders including history taking, test administration, data analysis, patient counseling, oral and written case presentation. **Prerequisites:** *SPPA 4852 or SPPA 6052; SPPA 4861; and graduate standing.*

SPPA 6160 - Audiological Rehabilitation

Units: 4

Advanced study of the issues facing clinicians when providing audiological rehabilitation services in adult clinical settings. Emphasis on group formation and communication strategies training. Guided practical experience in group audiological rehabilitation.

SPPA 6220 - Dysphagia in Adults and Children

Units: 4

Principles and evidence-based clinical guidelines for screening, assessment, and treatment of dysphagia in adults and children. Anatomy and physiology of normal swallowing, bedside and instrument-based assessment of swallowing disorders, behavioral and instrument-based treatment techniques, and ethical issues in clinical practice. **Prerequisites:** SPPA 4867, SPPA 4856 or SPPA 6056; and graduate standing.

SPPA 6223 - Early Language Assessment and Intervention

Units: 2

Provides information and develops skills for working with the birth to 3 population at risk for speech and language delays and/or disorders including: children of substance abuse pregnancies, premature birth, chromosomal disorders, developmental delay, and pervasive developmental disorders. Topics include characteristics of these populations, appropriate assessment procedures, family-centered services, and transdisciplinary approaches. **Prerequisites:** SPPA 4856 or SPPA 6056; SPPA 6060. Only open to SPPA majors.

SPPA 6224 - Issues in Ethics

Units: 2

The American Speech-Language-Hearing Association's (ASHA) Code of Ethics with specific discussion on conflict of interest, the effect of managed care, and insurance reimbursement. **Prerequisites:** SPPA 4852 or SPPA 6052. **Co-requisites:** SPPA 4856 or SPPA 6056.

SPPA 6228 - School-based Issues in Speech-Language Pathology

Units: 2

Issues pertaining to public school setting: IEPs, fair hearings, reports, school personnel, federal and state regulations, qualification standards, dismissal criteria, bilingualism and second language acquisition, best practices, group treatment, data collection, working with parents and teachers, and behavior management. **Prerequisites:** SPPA 4852 or SPPA 6052, and graduate standing.

SPPA 6229 - Medical Speech-Language Pathology

Units: 2

Issues pertaining to medical settings; acute, subacute and chronic care, hospice, tracheostomy tubes and vents, genetic syndromes, unusual medical diagnoses, infection control, IHPs, chart documentation, productivity standards, federal and state regulations, best practices, and working with medical professionals as a team. **Prerequisites:** SPPA 4852 or SPPA 6052, and graduate standing.

SPPA 6854 - Diagnosis of Speech and Language Disorders

Units: 4

Theory and practice in the assessment of various pathologies of speech and language. **Prerequisites:** Graduate standing and consent of instructor.

SPPA 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off campus paid or volunteer activities. **Prerequisites:** at least a 3.0 GPA; departmental approval of activity. Not applicable to the Speech-Language Pathology, M.S. **Repeatability:** May be repeated once, for a maximum of 8 units.

SPPA 6900 - Independent Study

Units: 1-5

SPPA 6910 - University Thesis

Units: 2-8

Development and writing of a formal research paper for submission to the University in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See also, "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course. **Prerequisites:** Graduate standing. Maximum of 8 units per student.

SPPA 6999 - Issues in Speech Pathology and Audiology

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in speech pathology and audiology. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Statistics

STAT 1000 - Elements of Probability and Statistics

Units: 5

Descriptive statistics (measures of central tendency, dispersion, correlation), elementary discrete probability distributions. Introduction to tests of statistical hypotheses. **Prerequisites:** Completion of ELM requirement. **Credit Restrictions:** Not open to students with credit for STAT 2010 or STAT 2008. Must complete course with a grade of "C-" or better in order to earn General Education, Area B4, credit.

STAT 2010 - Elements of Statistics for Business and Economics

Units: 5

Introduction to modern probability, descriptive statistics, estimation, hypothesis testing, and linear regression. Applications to business and economics. **Prerequisites:** *Completion of ELM requirement.* **Credit Restrictions:** Not open to students with credit for STAT 1000 or 2008. Must complete course with a grade of "C-" or better in order to earn General Education, Area B4, credit.

STAT 3010 - Statistical Methods in the Social Sciences

Units: 4

Standard scores, t scores, ranked data, linear regression, correlation, measures of association, the normal distribution and its uses, paired comparisons, the uses of chi-squared, and introduction to design of experiments. **Prerequisites:** *STAT 1000 or equivalent.*

STAT 3031 - Statistical Methods in Biology

Units: 4

Basic probability and statistical concepts. Introduction to the analysis of variance, correlation, and simple linear regression. Nonparametric techniques with application to biology. **Prerequisites:** *MATH 1130 or consent of instructor.*

STAT 3050 - Statistics: from Data to Decisions

Units: 4

Fundamentals of statistical reasoning illustrated with real data from such fields as biology, psychology, geology, anthropology, physics, medical technology. How to decide on an appropriate statistical method. Graphical methods, computer assisted analysis of data. Drawing conclusions. Projects with written reports. **Prerequisites:** *STAT 1000 or equivalent.* **Credit Restrictions:** Not for credit in Statistics B.S. degree. Acceptable for credit in statistics minor.

STAT 3088 - Gambling and Games of Chance

Units: 4

A survey of popular gambling games, including dice games, card games, and horse racing. Discussion of odds and probabilities, and how to turn those into gambling strategies. **Prerequisites:** *Lower division quantitative reasoning, General Education Area B4, satisfied.* **Credit Restrictions:** Not for credit in Statistics B.S. degree.

STAT 3401 - Introduction to Probability Theory I

Units: 4

The theory of probability with applications to science and engineering. Sample spaces; random variables; joint, marginal, conditional distributions; expectations; important distributions (binomial, Poisson, normal, etc.); and moment generating functions.

STAT 3402 - Introduction to Probability Theory II

Units: 4

Generating functions and multivariate distributions. Conditioning. Chebyshev inequality and limit theorems. Multidimensional transformations of random variables. Derivation of t and F distributions. Uses of probability theory in mathematical statistics. **Prerequisites:** STAT 3401 or STAT 4412.

STAT 3502 - Statistical Inference I

Units: 4

Random variables, sampling distributions (binomial, Poisson, normal, exponential), conditional probability. Estimation, hypothesis testing. Computer-aided computations. Topics include: t-tests, correlation, regression; proportions, chi-squared; ANOVA. **Prerequisites:** MATH 1305.

STAT 3503 - Statistical Inference II

Units: 4

General linear hypothesis with emphasis on design and analysis of experiments. Data from science, engineering, and quality management. Factorial designs: random effects, nesting. Optional topics: incomplete blocks, missing data, analysis of covariance. Computer-aided analysis. **Prerequisites:** STAT 3502 or STAT 3601.

STAT 3510 - Sampling Procedures for Surveys

Units: 4

Detailed investigation of sampling methods. Design and comparisons of stratified, systematic, and cluster sampling procedures. Techniques of multistage and multiphase sampling. Emphasis on applications to social science. **Prerequisites:** STAT 1000 or equivalent.

STAT 3601 - Statistics and Probability for Science and Engineering I

Units: 4

Basic probability rules (independence, Bayes' Theorem), distributions (binomial, Poisson, normal, exponential), reliability. Descriptive, inferential statistics (control charts, estimation, hypothesis testing: one, two samples), correlation, regression. Emphasizes: computer analysis, simulation; science, engineering applications. **Prerequisites:** MATH 1305. **Credit Restrictions:** Not open to students with credit for STAT 3502/ENGR 3502. **Cross-listed:** INDE 3601.

STAT 3602 - Statistics and Probability for Science and Engineering II

Units: 4

General linear model with emphasis on design and analysis of experiments. Fixed and random effects and nested models. Power and sample size considerations. Emphasizes: computer analysis, simulation; science, engineering applications. **Prerequisites:** STAT 3502 or STAT 3601/INDE 3601. **Credit Restrictions:** Not open to those with credit for STAT 3503. **Cross-listed:** INDE 3602.

STAT 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 2.0 GPA; departmental approval of activity.*

Repeatability: May be repeated for credit, for a maximum of 8 units. A maximum of 4 units will be accepted toward the Statistics major.

STAT 3900 - Data Analysis Using Statistical Packages

Units: 4

Using computer packages (e.g., SPSS, SAS) and interpreting output. Data preparation, descriptive statistics, graphs, checks for normality, t-tests, F-tests, ANOVA, cross tabulations, chi-squared tests, correlation, and report preparation. **Prerequisites:** *A previous course in statistics.*

STAT 3910 - Statistical Software Usage

Units: 4

Using program code in a statistical software package (e.g., SPSS, R or SAS), producing reformatted data and statistical analysis. Topics may include graphics, creating and managing data files, and simulations.

Prerequisites: *A previous Statistics course and skill in computer usage.*

STAT 3999 - Issues in Statistics

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in statistics. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

STAT 4000 - Analysis of Variance in the Behavioral Sciences

Units: 4

Review of elementary analysis of variance. Factorial analysis of variance, multiple comparisons, and repeated measures designs. **Prerequisites:** *STAT 3010 or STAT 3031.*

STAT 4013 - Statistics, Data Analysis, and Probability

Units: 4

(See MATH 4013 for course description.)

STAT 4401 - Introduction to Stochastic Processes

Units: 4

Theory of stochastic models with applications to science and engineering. Markov processes. Elementary birth-death processes, queues. Limit theorems. Computer simulation. Applications: e.g., inventory models, reliability, epidemiology. **Prerequisites:** *STAT 3401/MATH 3401 or STAT 3601/INDE 3601.*

STAT 4412 - Probability Theory

Units: 4

Same spaces; random variables, joint, marginal, conditional distributions; expectations for modeling data; related use of computer packages; moment generating functions; transforming a random variable.

Prerequisites: *MATH 1305*. **Credit Restrictions:** Not open to students with credit for STAT 3401.

STAT 4515 - Applied Multivariate Analysis

Units: 4

MANOVA, repeated measures designs, discriminant functions. May include factor analysis, canonical correlation, and cluster analysis. Computer intensive with special emphasis on treatment of actual data. Written reports required.

Prerequisites: STAT 3010 ; STAT 3900 . **Co-requisites:** STAT 3010; STAT 3900.

STAT 4601 - Regression

Units: 4

Computational methods in regression, including variable construction, and ANOVA. Selection methods.

Attention to model assessment, graphical techniques, and assumption checking. Emphasis on real data

from science, engineering, and business. Computer-assisted analysis. Report writing. **Prerequisites:** STAT 3503 or STAT 4000. **Co-requisites:** STAT 3503 or STAT 4000.

STAT 4610 - Introduction to Nonparametric Statistical Methods

Units: 4

Nonparametric methods and distribution-free tests. Sign, Wilcoxon, rank-correlation, independence and randomness tests. Approximate distributions under the null hypothesis, treatment of ties, some estimation procedures. Emphasis on social science data. **Prerequisites:** *STAT 3010*.

STAT 4860 - Undergraduate Seminar

Units: 4

Seminar in probability and/or statistics on topics extending beyond regular courses. Variable content, units, and prerequisites specified at the time of offering. **Repeatability:** May be repeated two times for credit when content varies, for a maximum 12 units.

STAT 4861 - Undergraduate Seminar

Units: 4

Seminar in probability and/or statistics on topics extending beyond regular courses. Variable content, units, and prerequisites specified at the time of offering. **Repeatability:** May be repeated two times for credit when content varies, for a maximum 12 units.

STAT 4862 - Undergraduate Seminar

Units: 4

Seminar in probability and/or statistics on topics extending beyond regular courses. Variable content, units, and prerequisites specified at the time of offering. **Repeatability:** May be repeated two times for credit when content varies, for a maximum 12 units.

STAT 4863 - Undergraduate Seminar

Units: 4

Seminar in probability and/or statistics on topics extending beyond regular courses. Variable content, units, and prerequisites specified at the time of offering. **Repeatability:** May be repeated two times for credit when content varies, for a maximum 12 units.

STAT 4864 - Undergraduate Seminar

Units: 4

Seminar in probability and/or statistics on topics extending beyond regular courses. Variable content, units, and prerequisites specified at the time of offering. **Repeatability:** May be repeated two times for credit when content varies, for a maximum 12 units.

STAT 4865 - Undergraduate Seminar

Units: 4

Seminar in probability and/or statistics on topics extending beyond regular courses. Variable content, units, and prerequisites specified at the time of offering. **Repeatability:** May be repeated two times for credit when content varies, for a maximum 12 units.

STAT 4866 - Undergraduate Seminar

Units: 4

Seminar in probability and/or statistics on topics extending beyond regular courses. Variable content, units, and prerequisites specified at the time of offering. **Repeatability:** May be repeated two times for credit when content varies, for a maximum 12 units.

STAT 4867 - Undergraduate Seminar

Units: 4

Seminar in probability and/or statistics on topics extending beyond regular courses. Variable content, units, and prerequisites specified at the time of offering. **Repeatability:** May be repeated two times for credit when content varies, for a maximum 12 units.

STAT 4868 - Undergraduate Seminar

Units: 4

Seminar in probability and/or statistics on topics extending beyond regular courses. Variable content,

units, and prerequisites specified at the time of offering. **Repeatability:** May be repeated two times for credit when content varies, for a maximum 12 units.

STAT 4869 - Undergraduate Seminar

Units: 4

Seminar in probability and/or statistics on topics extending beyond regular courses. Variable content, units, and prerequisites specified at the time of offering. **Repeatability:** May be repeated two times for credit when content varies, for a maximum 12 units.

STAT 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

STAT 4910 - Advanced Statistical Package Usage

Units: 4

Programming in an advanced statistical software package, producing reformatted data, advanced statistical analysis, and probability modeling. Topics may include graphics, spatial statistics, creating and managing data files, simulations, approximation algorithms. **Prerequisites:** *STAT 3502, CS 1160.*

STAT 4950 - Advanced Statistical Packages for Data Analysis

Units: 4

Programming and applying computer packages (e.g., SAS, S+). Data preparation and transformation, macros, descriptive statistics. Topics from diagnostics, t-procedures, ANOVA; nonparametrics; cross-tabulation, chi-squared, correlation, regression. Report writing. **Prerequisites:** *STAT 3502.*

STAT 4960 - R Programing

Units: 4

Data input, data output, data manipulation, use of libraries, data analysis methods, programming interfaces, graphics, functions using R. **Prerequisites:** *STAT 3502.* **Credit Restrictions:** Not open to students with credit for STAT 6260.

Statistics: Graduate

STAT 5300 - Quality Engineering

Units: 4

(See ENGR 5300 for course description.)

STAT 5601 - Introductory Statistics and Probability for Science and Engineering

Units: 4

Basic probability rules (independence, Bayes' Theorem), distributions (binomial, Poisson, normal, exponential), reliability. Descriptive, inferential statistics (control charts, estimation, hypothesis testing: one, two samples), correlation, regression. Emphasizes: computer analysis, simulation; science, engineering applications. **Prerequisites:** *MATH 1305 or departmental approval.* **Credit Restrictions:** Not open to students with credit for STAT 3502/ENGR 3502/MATH 3502. **Cross-listed:** ENGR 5601.

STAT 6010 - Applied Analysis of Variance

Units: 4

Elementary analysis of variance including multiple comparisons. Factorial analysis of variance, interactions, repeated measures designs, random effects designs. Computer-facilitated analyses. Analysis of real data and written report required. **Prerequisites:** *STAT 3010, STAT 3031, or STAT 3502.* **Credit Restrictions:** Not for credit in Statistics M.S. degree.

STAT 6011 - Statistical Modeling for Management and Economics

Units: 4

Concepts in statistics for management and economics. Probability and statistical models. Rare events, waiting time, qualitative and quantitative models. Bayes theorem. Estimation, inference. Linear and nonlinear models. Emphasis on computer estimation of models with statistical analysis of errors and attention to model assumptions. Restricted to post-baccalaureate students. **Co-requisites:** *MATH 1810.* **Credit Restrictions:** Not for credit toward M.S. in Mathematics or Statistics.

STAT 6020 - Statistical Methods in Clinical Trials

Units: 4

Experimental designs, statistical analyses, and clinical-scientific-regulatory issues common to clinical trials research. Includes writing analysis plan, conducting statistical analysis meeting constraints of regulatory agencies, reporting results, and data monitoring. **Prerequisites:** *STAT 3503, STAT 4000, or STAT 6010.* **Credit Restrictions:** Not for credit in Statistics M.S. degree.

STAT 6059 - Advanced Statistical Methods Using Computing Packages

Units: 4

Using computer packages (e.g., SPSS) and interpreting output applied to social science and education. Data preparation, descriptive statistics, graphs, checks for normality, t-tests, F-tests, ANOVA, cross tabulations, chi-squared tests, and correlation. Report preparation. **Prerequisites:** *STAT 2010, STAT 3010, STAT 3031, or STAT 3502/MATH 3502; postbaccalaureate/graduate standing.* **Credit Restrictions:** Not for credit in Statistics graduate program.

STAT 6204 - Probability Theory

Units: 4

Theory of probability. Random variables; joint, marginal, conditional distributions; important

distributions (binomial, Poisson, normal, etc.); moments; moment generating functions. Multivariate distributions. Inequalities; limit theorems. Multidimensional transformations; derivation of random variables. **Prerequisites:** *MATH 2304 or admission to the graduate program.*

STAT 6205 - Statistical Theory

Units: 4

Maximum likelihood and least squares estimation, applications to one-sample, two-sample and regression problems, hypothesis testing, confidence intervals, significance level, bias, precision. **Prerequisites:** *STAT 6204.*

STAT 6250 - SAS Programming

Units: 4

Professional SAS programming techniques. Data management and processing. Data integrity. Graphical presentation of data. Data reporting techniques. Topics in applied statistics and biostatistics. Introduction to SAS data step, SAS Macros, SAS Reports, SAS SQL, and other relevant programming topics. Report Writing. **Prerequisites:** *Current enrollment or completion of a graduate level course in statistics.*

STAT 6260 - R Programing

Units: 4

Data input, data output, data manipulation, use of libraries, simulation, data analysis methods, programming interfaces, graphics, functions using R. Dual-listed with STAT 4960. **Prerequisites:** *STAT 6304 or consent of instructor.*

STAT 6300 - Applied Quality Assurance

Units: 4

(See ENGR 6300 for course description.)

STAT 6304 - Advanced Statistical Inference

Units: 4

Random variables, sampling distributions, conditional probability. Expectation. Estimation, method of moments, maximum likelihood. Confidence intervals. Hypothesis testing. Computer-aided computations and simulations. Topics include: t-tests, correlation, regression, proportions, chi-squared, ANOVA, nonparametrics, bootstrapping. **Prerequisites:** *MATH 1305 or admission to graduate program.*

STAT 6305 - Analysis of Variance Models

Units: 4

Models for factorial designs: expected mean squares, random effects, nesting, power/sample size, missing data, ANOVA. Model assessment. Computer-aided analysis. Report writing. **Prerequisites:** *STAT 6304.*

STAT 6310 - Advanced Stochastic Processes and Simulation

Units: 4

Theory of stochastic models. Markov chains: classification, limiting behavior. Continuous-time Markov processes: Poisson, birth-death. Simulations of processes and probability modeling. May include: additional limit theorems, queues, renewal theory, applications. **Prerequisites:** STAT 6205.

STAT 6401 - Advanced Probability I

Units: 4

Advanced treatment of probability theory and its applications. May include: conditioning, generating/characteristic functions, modes of convergence, limit theorems, renewal theory, Markov processes, combinatorial techniques, measure and integration. **Prerequisites:** MATH 2304 and (either STAT 3402 or STAT 4401); or admission to graduate program and STAT 6204. **Cross-listed:** MATH 6401.

STAT 6501 - Mathematical Statistics I

Units: 4

Theory of point and interval estimation and hypothesis testing, from the Neyman-Pearson point of view. May include: decision theory, non-parametric inference, sequential analysis, multivariate analysis, robustness, Bayesian methods, computer intensive methods. **Prerequisites:** STAT 6205 or graduate standing in mathematics. **Cross-listed:** MATH 6501.

STAT 6502 - Mathematical Statistics II

Units: 4

Theory of point and interval estimation and hypothesis testing, from the Neyman-Pearson point of view. May include: decision theory, non-parametric inference, sequential analysis, multivariate analysis, robustness, Bayesian methods, computer intensive methods. **Prerequisites:** STAT 6205 or graduate standing in mathematics. **Cross-listed:** MATH 6502.

STAT 6509 - Theory and Application of Regression

Units: 4

Theory of least squares in model fitting. Computational methods in regression, including variable selection, ANOVA and ANCOVA. Model assessment, graphical techniques and assumption checking. Computer-assisted analysis. Report writing. **Prerequisites:** STAT 6305. **Co-requisites:** STAT 6305.

STAT 6510 - Analysis of Variance

Units: 4

The theory and application of the general linear model, the analysis of variance and covariance, application of generalized inverses and decomposition theorems from linear algebra. **Prerequisites:** MATH 2101, and either STAT 3503 or STAT 6305. **Cross-listed:** MATH 6510.

STAT 6511 - Advanced Applied Econometrics

Units: 4

(See ECON 6511 for course description.)

STAT 6515 - Advanced Multivariate Analysis

Units: 4

Advanced, computer-intensive applications of multivariate analysis. Applications of linear algebra. Topics may include ANOVA, canonical correlation, discriminant functions, factor/cluster/spatial analysis. Emphasis on actual data, report writing. **Prerequisites:** *STAT 6305, and STAT 4950 or STAT 6250, and MATH 2101.*

STAT 6550 - Bayesian Statistics

Units: 4

Bayes Theorem, subjective probability, conjugate priors, non-informative priors, posterior estimation, credible intervals, prediction, sensitivity analysis, comparison to classical procedures, MCMC, Gibbs sampling, hierarchical Bayesian analysis. Use of statistical software. Report writing. **Prerequisites:** *A graduate level course in Statistics or probability and an upper division course in computational statistics or computer science or consent of instructor.* **Co-requisites:** *One of prerequisites allowed as co-requisite.*

STAT 6555 - Statistical Time Series Analysis

Units: 4

Analysis of correlated data in time, trends, seasonal patterns, periodicity, autocorrelation, spectral analysis, filtering, time domain versus spectral domain. Decomposition, autoregression, ARIMA, state-space models, forecasting. Applications to data in economics, engineering, seismology. Use of statistical software. Report writing. **Prerequisites:** *One course in upper division statistics or probability and statistical computing or consent of instructor.*

STAT 6601 - Advanced Statistical Computing

Units: 4

Implementation of computationally-advanced statistical methods. Topics may include: bootstrap, EM algorithm, Bayesian methods, Markov Chain, Monte Carlo, neural networks, recent methodological advances. **Prerequisites:** *Senior or graduate standing, previous programming experience and one of: STAT 4950, STAT 6250, or STAT 6260.*

STAT 6610 - Data Visualization

Units: 4

Methods used in data visualization and interactive exploration of big data. Topics include data merging and exporting, interactive GIS maps, elements of visual perception, effective graphs and charts, and

meaningful visual representations of complex statistics and large data sets. **Prerequisites:** *STAT 6304 or consent of instructor.* **Strongly Recommended:** Experience with R or STAT 6260.

STAT 6620 - Statistical Learning with R

Units: 4

Introduction to machine learning, including supervised learning such as regression, logistic regression and classification methods. Re-sampling methods such as cross-validation and bootstrap. Unsupervised learning. Applications to data mining, statistical pattern recognition, and data processing. **Prerequisites:** *STAT 6509, STAT 6260.* **Strongly Recommended:** Experience with R.

STAT 6651 - Analysis of Categorical Data in Biostatistics

Units: 4

(See BSTA 6651 for course description.)

STAT 6801 - Statistical Consulting

Units: 4

Professional statistical consulting skills. Technical methods such as design of experiments and analysis of complex data. Professional data management and software practices will be covered. Interpersonal consulting skills will be emphasized. Real-life applications will be explored. **Prerequisites:** *STAT 6250, STAT 6305, STAT 6509 and completion of the University Writing Skills Requirement.*

STAT 6843 - Selected Topics in Biostatistics

Units: 4

(See BSTA 6843-BSTA 6849 for course description.)

STAT 6844 - Selected Topics in Biostatistics

Units: 4

(See BSTA 6843-BSTA 6849 for course description.)

STAT 6845 - Selected Topics in Biostatistics

Units: 4

(See BSTA 6843-BSTA 6849 for course description.)

STAT 6846 - Selected Topics in Biostatistics

Units: 4

(See BSTA 6843-BSTA 6849 for course description.)

STAT 6847 - Selected Topics in Biostatistics

Units: 4

(See BSTA 6843-BSTA 6849 for course description.)

STAT 6848 - Selected Topics in Biostatistics

Units: 4

(See BSTA 6843-BSTA 6849 for course description.)

STAT 6849 - Selected Topics in Biostatistics

Units: 4

(See BSTA 6843-BSTA 6849 for course description.)

STAT 6851 - Selected Topics in Actuarial and Decision Science

Units: 4

Methods in actuarial and decision science extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *STAT 3402 or STAT 4401*. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

STAT 6852 - Selected Topics in Actuarial and Decision Science

Units: 4

Methods in actuarial and decision science extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *STAT 3402 or STAT 4401*. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

STAT 6853 - Selected Topics in Actuarial and Decision Science

Units: 4

Methods in actuarial and decision science extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *STAT 3402 or STAT 4401*. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

STAT 6854 - Selected Topics in Actuarial and Decision Science

Units: 4

Methods in actuarial and decision science extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *STAT 3402 or STAT 4401*. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

STAT 6855 - Selected Topics in Actuarial and Decision Science

Units: 4

Methods in actuarial and decision science extending beyond regular courses. Variable content to be

specified at time of offering. **Prerequisites:** *STAT 3402 or STAT 4401*. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

STAT 6856 - Selected Topics in Actuarial and Decision Science

Units: 4

Methods in actuarial and decision science extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *STAT 3402 or STAT 4401*. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

STAT 6857 - Selected Topics in Actuarial and Decision Science

Units: 4

Methods in actuarial and decision science extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *STAT 3402 or STAT 4401*. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

STAT 6858 - Selected Topics in Actuarial and Decision Science

Units: 4

Methods in actuarial and decision science extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *STAT 3402 or STAT 4401*. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

STAT 6859 - Selected Topics in Actuarial and Decision Science

Units: 4

Methods in actuarial and decision science extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *STAT 3402 or STAT 4401*. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

STAT 6860 - Selected Topics in Graduate Probability and Statistics

Units: 4

Probability and/or Statistics extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *Graduate standing and consent of instructor*. **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6861 - Selected Topics in Graduate Probability and Statistics

Units: 4

Probability and/or Statistics extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *Graduate standing and consent of instructor*. **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6862 - Selected Topics in Graduate Probability and Statistics

Units: 4

Probability and/or Statistics extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6863 - Selected Topics in Graduate Probability and Statistics

Units: 4

Probability and/or Statistics extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6864 - Selected Topics in Graduate Probability and Statistics

Units: 4

Probability and/or Statistics extending beyond regular courses. Variable content to be specified at time of offering. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6865 - Mathematical Modeling

Units: 4

(See MATH 6865 for course description.)

STAT 6870 - Seminar in Probability and Statistics

Units: 4

An intensive study of a selected topic in probability and/or statistics from current literature emphasizing student participation. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6871 - Seminar in Probability and Statistics

Units: 4

An intensive study of a selected topic in probability and/or statistics from current literature emphasizing student participation. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6872 - Seminar in Probability and Statistics

Units: 4

An intensive study of a selected topic in probability and/or statistics from current literature emphasizing

student participation. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6873 - Seminar in Probability and Statistics

Units: 4

An intensive study of a selected topic in probability and/or statistics from current literature emphasizing student participation. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6874 - Seminar in Probability and Statistics

Units: 4

An intensive study of a selected topic in probability and/or statistics from current literature emphasizing student participation. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6875 - Seminar in Probability and Statistics

Units: 4

An intensive study of a selected topic in probability and/or statistics from current literature emphasizing student participation. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6876 - Seminar in Probability and Statistics

Units: 4

An intensive study of a selected topic in probability and/or statistics from current literature emphasizing student participation. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6877 - Seminar in Probability and Statistics

Units: 4

An intensive study of a selected topic in probability and/or statistics from current literature emphasizing student participation. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6878 - Seminar in Probability and Statistics

Units: 4

An intensive study of a selected topic in probability and/or statistics from current literature emphasizing student participation. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6879 - Seminar in Probability and Statistics

Units: 4

An intensive study of a selected topic in probability and/or statistics from current literature emphasizing student participation. **Prerequisites:** *Graduate standing and consent of instructor.* **Repeatability:** May be repeated once for credit with consent of department and when content varies, for a maximum of 8 units.

STAT 6895 - Practicum in Statistics

Units: 1-4

Supervised experience tutoring, grading, or consulting through the Statistics Department Consulting Laboratory. Students complete academic assignments integrated with on- or off-campus paid or volunteer activities. **Prerequisites:** *Advancement to candidacy, approval of the graduate advisor.* **Repeatability:** May be repeated for credit, for a maximum of 4 units.

STAT 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 3.0 GPA and departmental approval of activity.* **Repeatability:** May be repeated for credit, for a maximum of 8 units. A maximum of 4 units will be accepted toward the M.S. degree in Statistics.

STAT 6900 - Independent Study

Units: 1-4

STAT 6950 - Graduate Statistics Capstone

Units: 1

Retrospective view of courses required for M.S. degree. Strategies for lifelong learning and contributions to the statistics profession. Preparation for, and completion of, M.S. Comprehensive Examination. **Prerequisites:** *STAT 6501; Advancement to Candidacy.* **Co-requisites:** *STAT 6502.*

STAT 6999 - Issues in Statistics

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in statistics. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

Subject Area Course List (SACL) - Acting

THEA 2031 - Stage Voice A

Units: 1

Fundamentals of voice production. Includes warm-ups, resonance, relaxation, projection, and breath control. **Repeatability:** May be taken out of sequence with permission of instructor. Each may be repeated once, for a maximum of 2 units each. Only 2 units may be applied to Beginning Electives and/or an Option in the major.

THEA 2032 - Stage Voice B

Units: 1

Fundamentals of voice production. Introduces articulation, emphasis, and Standard American Speech in use in classic repertoire. **Repeatability:** May be taken out of sequence with permission of instructor. Each may be repeated once, for a maximum of 2 units each. Only 2 units may be applied to Beginning Electives and/or an Option in the major.

THEA 2035 - Fundamentals of Acting

Units: 3

Emphasis on scene specific improvisation, text analysis, identification of objectives, actions, and obstacles. Attention also given to freeing character through animal imagery, inanimate imagery, body centers, character analysis, given circumstances, and personalization. **Prerequisites:** *Majors-one year of stage voice; Others-THEA 1020 or instructor approval.*

THEA 2037 - Acting 20th Century Drama and Diversity

Units: 3

Exploration of acting, movement, and vocal technique through scripts from contemporary playwrights of various races, ethnicities, and cultures. Emphasis on character development. Exercises for connecting to personal experience, freeing the imagination, and personal discovery. **Prerequisites:** *THEA 2035 and THEA 2055 or instructor approval.*

THEA 2055 - Intermediate Acting I

Units: 2

Exploration of personal behavior under a variety of circumstances. Self-observation to create a reality. Selecting pertinent behavior and finding meaningful actions. Given circumstances, objectives, fourth wall, concentration, sense of self, and moment to moment involvement. **Prerequisites:** *THEA 2035 or instructor approval.*

THEA 2061 - Musical Theatre Show Choir A

Units: 2

Performance of songs from the American and British musical theatre repertoire; skills in various musical theatre styles, both solo and group, including song interpretation, dance, and acting skills. Class performs on and off campus.

THEA 2062 - Musical Theatre Show Choir B

Units: 2

Performance of songs from the American and British musical theatre repertoire; skills in various musical theatre styles, both solo and group, including song interpretation, dance, and acting skills. Class performs on and off campus.

THEA 2063 - Musical Theatre Show Choir C

Units: 2

Performance of songs from the American and British musical theatre repertoire; skills in various musical theatre styles, both solo and group, including song interpretation, dance, and acting skills. Class performs on and off campus.

THEA 3052 - Acting for the Camera

Units: 4

Acting in television drama; preparation for interviews and other television appearances. Prepares students for acting and production opportunities in CSUEB creative video courses. **Strongly Recommended:** THEA 1020, COMM 3100, or ENGL 3077.

THEA 3056 - Intermediate Acting II

Units: 2

Using personal behavior and self-observation to create a reality. Selecting pertinent behavior and finding meaningful actions. Establishing given circumstances, clarifying objectives, creating fourth wall, strengthening concentration, expanding sense of self, and increasing moment to moment involvement.

Prerequisites: *Instructor approval.*

THEA 3057 - Intermediate Acting III

Units: 2

Using personal behavior and self-observation to create a reality. Selecting pertinent behavior and finding meaningful actions. Establishing given circumstances, clarifying objectives, creating fourth wall, strengthening concentration, expanding sense of self, and increasing moment to moment involvement.

Prerequisites: *Instructor approval.*

THEA 3064 - Audition Techniques and Talent Analysis I

Units: 1

Audition techniques using monologues, scene work, and cold reading. Developing head shots and resumes. Self-marketing based on analysis of personal talents and type. **Co-requisites:** *One of THEA 1494, 2494, 3494, 4494, 2055, 3042, or 3043.* **Grading:** *A-F grading only.*

THEA 3065 - Audition Techniques and Talent Analysis II

Units: 1

Audition techniques using monologues, scene work, and cold reading. Developing head shots and resumes. Self-marketing based on analysis of personal talents and type. **Co-requisites:** One of THEA 1494, 2494, 3494, 4494, 2055, 3042, or 3043. **Grading:** A-F grading only.

THEA 4032 - Period Acting Style: Restoration and Moliere

Units: 3

Technique and physical style for British Restoration and Moliere. Exercises and scene work to increase skills repertoire. Using costumes, mannerisms, body positions, and commedia stock characters. Political and social changes that gave rise to classic theatrical visions of satire. **Strongly Recommended:** Strongly Recommended: THEA 2055.

THEA 4038 - Acting Studio I

Units: 3

Classroom workshop productions of one act plays, short plays, and new works. Plays from various styles and periods. Provides opportunity to develop a main character and bring them to life in performance. The complete acting process. **Strongly Recommended:** Strongly Recommended: THEA 2055.

THEA 4039 - Acting Studio II

Units: 3

Classroom workshop productions of one act plays, short plays, and new works. Plays from various styles and periods. Provides opportunity to develop a main character and bring them to life in performance. The complete acting process. **Strongly Recommended:** Strongly Recommended: THEA 2055.

Subject Area Course List (SACL) - Dance Fundamental

DANC 2020 - Rhythm and Music for Dance

Units: 2

Study and exploration of common rhythmic and musical forms used for dance accompaniment. Composition of and improvisation to simple rhythmic scores.

DANC 2341 - Improvisation in Art and Life

Units: 2

Improvisation as a vehicle for deepening artistic expression, performance skills, body awareness, health, and communication. Integrates techniques from modern dance, music, dance theatre, martial arts, sports and more. Inclusive for people of all sizes, shapes, ages and abilities/disabilities. **Repeatability:** May be repeated once for credit, for a maximum of 4 units. Theatre majors/minors and Dance minors must take their first attempt for a letter grade only.

DANC 2342 - Integrating Theatre and Dance

Units: 2

Techniques for integrating movement, text, sound, and personal experience with diverse styles to create inclusive and vital contemporary performance. Fosters creative and innovative problem-solving.

Inclusive, for people of all sizes, shapes, ages and abilities/disabilities. **Repeatability:** May be repeated once for credit for a maximum of 4 units. Theatre majors/minors and Dance minors must take their first attempt for a letter grade only.

DANC 2343 - Body and Mind Training for Performance

Units: 2

Overview of somatic approaches to training for dance, theatre, music, sports, public speaking and more.

Combines modern dance and martial arts with diverse approaches to understanding and harnessing the full range of body systems for increased efficiency and health. **Repeatability:** May be repeated once for credit for a maximum of 4 units. Theatre majors/minors and Dance minors must take their first attempt for a letter grade only.

DANC 2344 - Site Specific Performance

Units: 2

Overview of techniques and approaches for performing outside the context of a fully furnished theatre.

Covers movement, sound, text, image, design, improvisation and composition. Opportunities for studying, experimenting, and performing in multiple styles and settings. **Repeatability:** May be repeated once for credit for a maximum of 4 units. Theatre majors/minors and Dance minors must take their first attempt for a letter grade only.

Subject Area Course List (SACL) - Dance History

DANC 4201 - Dance in Modern Society

Units: 4

The development of dance from the post-Renaissance period to the present, i.e., modern dance, black dance, men in dance, social dance, musical theatre and avant garde. Social, political, psychological, and spiritual influences.

Subject Area Course List (SACL) - Dance Technique

DANC 1131 - Beginning Technique Classes: Beginning Hip Hop Dance I

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1132 - Beginning Technique Classes: Beginning Hip Hop Dance II

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1133 - Beginning Technique Classes: Beginning Hip Hop Dance III

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1171 - Beginning Technique Classes: Beginning Jazz Dance I

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1172 - Beginning Technique Classes: Beginning Jazz Dance II

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1173 - Beginning Technique Classes: Beginning Jazz Dance III

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III

Units: 1

Beginning dance techniques. Audition during first meeting to take course out of sequence. **Credit**

Restrictions: Not open to students with two units of credit for former courses in the same technique in the DANC 1000 series.

DANC 2131 - Intermediate Technique Classes: Intermediate Hip Hop Dance I

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission.

Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2132 - Intermediate Technique Classes: Intermediate Hip Hop Dance II

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission.

Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2133 - Intermediate Technique Classes: Intermediate Hip Hop Dance III

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2141 - Intermediate Technique Classes: Intermediate Modern Dance I

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2171 - Intermediate Technique Classes: Intermediate Jazz Dance I

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2172 - Intermediate Technique Classes: Intermediate Jazz Dance II

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2173 - Intermediate Technique Classes: Intermediate Jazz Dance III

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2191 - Intermediate Technique Classes: Intermediate Ballet Dance I

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2192 - Intermediate Technique Classes: Intermediate Ballet Dance II

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission.

Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 2193 - Intermediate Technique Classes: Intermediate Ballet Dance III

Units: 1

Intermediate dance techniques. Requires one year of beginning technique or instructor's permission. Audition during first meeting to take course out of sequence. **Credit Restrictions:** Not open to students with two units of credit for former courses in the same technique in the DANC 2000 series.

DANC 4141 - Advanced Dance Technique Courses: Advanced Modern Dance I

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4142 - Advanced Dance Technique Courses: Advanced Modern Dance II

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4143 - Advanced Dance Technique Courses: Advanced Modern Dance III

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4171 - Advanced Dance Technique Courses: Advanced Jazz Dance I

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4172 - Advanced Dance Technique Courses: Advanced Jazz Dance II

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4173 - Advanced Dance Technique Courses: Advanced Jazz Dance I

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4191 - Advanced Dance Technique Courses: Advanced/Intermediate Ballet Dance I

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4192 - Advanced Dance Technique Courses: Advanced/Intermediate Ballet Dance II

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

DANC 4193 - Advanced Dance Technique Courses: Advanced/Intermediate Ballet Dance III

Units: 2

Advanced or intermediate/advanced dance technique courses. **Prerequisites:** *Previous training at beginning and intermediate levels. Eligibility determined by audition at first class meeting. Each course repeatable once for credit for a maximum of 4 units.*

Subject Area Course List (SACL) - Musical Theatre

DANC 2121 - Musical Theatre Dance B

Units: 2

Dance techniques, interpretation, and choreography applicable to musical theatre. Might concentrate on dance related to current production, but will expand to other fundamentals. May be taken in any order.

Prerequisites: *One quarter of Jazz Technique or consent of instructor.*

DANC 2122 - Musical Theatre Dance C

Units: 2

Dance techniques, interpretation, and choreography applicable to musical theatre. Might concentrate on dance related to current production, but will expand to other fundamentals. May be taken in any order.

Prerequisites: *One quarter of Jazz Technique or consent of instructor.*

DANC 2123 - Musical Theatre Dance D

Units: 2

Dance techniques, interpretation, and choreography applicable to musical theatre. Might concentrate on dance related to current production, but will expand to other fundamentals. May be taken in any order.

Prerequisites: *One quarter of Jazz Technique or consent of instructor.*

DANC 2124 - Musical Theatre Dance E

Units: 2

Dance techniques, interpretation, and choreography applicable to musical theatre. Might concentrate on dance related to current production, but will expand to other fundamentals. May be taken in any order.

Prerequisites: *One quarter of Jazz Technique or consent of instructor.*

DANC 2125 - Musical Theatre Dance F

Units: 2

Dance techniques, interpretation, and choreography applicable to musical theatre. Might concentrate on dance related to current production, but will expand to other fundamentals. May be taken in any order.

Prerequisites: *One quarter of Jazz Technique or consent of instructor.*

THEA 2044 - Fundamental Musical Theatre Techniques

Units: 3

Introduction to Musical Theatre performance. How to embody a song for stage. Combining singing, acting and dance skills to illuminate character intention, emotion, and mood. Musicality and basic audition technique. Concludes with juried showcase of performance skills and progress. **Prerequisites:**

THEA 2035 or instructor approval. Grading: A-F grading only.

THEA 2045 - Applied Singing for Musical Theatre A

Units: 1

Introduction to scores, exercises, vocalization, and basic musicianship. Breathing technique; jaw, tongue and soft palate placement; placing the sound in the mask or head resonators; and expanding vocal range.

Building solo repertoire from a range of musicals. **Grading:** *AF grading only.*

THEA 2046 - Applied Singing for Musical Theatre B

Units: 1

Introduction to scores, exercises, vocalization, and basic musicianship. Breathing technique; jaw, tongue and soft palate placement; placing the sound in the mask or head resonators; and expanding vocal range.

Building solo repertoire from a range of musicals. **Grading:** *AF grading only.*

THEA 2047 - Applied Singing for Musical Theatre C

Units: 1

Introduction to scores, exercises, vocalization, and basic musicianship. Breathing technique; jaw, tongue and soft palate placement; placing the sound in the mask or head resonators; and expanding vocal range. Building solo repertoire from a range of musicals. **Grading:** *AF grading only.*

THEA 3041 - Advanced Applied Singing for Musical Theatre I

Units: 1

Continued development of healthy singing technique. Emphasis on song interpretation, approaching the song as a monologue, using personal identification to the text, and visualizing imaginary images while singing. **Prerequisites:** *THEA 2045, THEA 2046, THEA 2047, or instructor approval.* **Repeatability:** May be repeated once for credit for a maximum of 2 units, only one attempt applicable to major option. **Grading:** *A-F grading only.*

THEA 3042 - Advanced Applied Singing for Musical Theatre II

Units: 1

Continued development of healthy singing technique. Emphasizes song interpretation, approaching the song as a monologue, personal identification with the text, and visualization of imaginary images while singing. **Prerequisites:** *THEA 2045, THEA 2046, THEA 2047, THEA 3041, or instructor approval.* **Credit Restrictions:** Not for credit in the Theatre major but required for progress in the Technique and Ensemble classes. **Repeatability:** May be repeated once for credit for a maximum of 2 units, only one attempt applicable to major option. **Grading:** *A-F grading only.*

THEA 3043 - Advanced Applied Singing for Musical Theatre III

Units: 1

Continued development of healthy singing technique. Emphasizes song interpretation and telling a complete short story with a song. Song repertoire will consist of cabaret story songs from the works of Charles Aznavour, Kander and Ebb, Kurt Weil, and others. **Prerequisites:** *THEA 2045, THEA 2046, THEA 2047, and THEA 3041, THEA 3042, or instructor approval.* **Repeatability:** May be repeated once for credit for a maximum of 2 units, only one attempt applicable to major option. **Grading:** *A-F grading only.*

THEA 3048 - Musical Theatre Technique I

Units: 3

Acting while singing, including character development, revealing psychological intention, and moving the plot forward. Analyzing scenes with two or more characters that segue into songs. Breaking down scenes for actions, objectives and obstacles. **Prerequisites:** *THEA 2044 or instructor approval.* **Grading:** *A-F grading only.*

THEA 3049 - Musical Theatre Technique II

Units: 3

Acting while singing and scene to song transition. Scenes with three or more characters that segue into

musical trios, quartets, and larger groups. Character development, moving plot forward, and revealing psychological intention. Concludes with juried showcase to evaluate progress. **Prerequisites:** *THEA 3048 or instructor approval.* **Grading:** *A-F grading only.*

THEA 3216 - History of Musical Theatre

Units: 4

Musical theatre from 1866 to the present; 19th-century minstrel and variety shows; the theatre of social change in the 20's and 30's; and "concept" musicals after 1970. Requires theatre attendance.

THEA 4040 - Musical Theatre Journal Review

Units: 1

Musical Theatre Option majors required to maintain a developmental journal from second year to include course and performance reflections, literature and character studies, personal repertoire list, and audition materials. Required fourth year for senior review. Open to third year students with advising.

Repeatability: May be repeated once for credit for a maximum of 2 units. **Grading:** *A-F grading only.*

THEA 4048 - Advanced Musical Ensemble A

Units: 3

Focus on rehearsal technique and performance. Small ensemble musicals or musical revues to be performed on campus and at local high schools. Attention given to effective rehearsal technique, working as an ensemble, heightened lyricism, and acting technique. **Prerequisites:** *THEA 3048 and THEA 3049, or instructor approval.* **Grading:** *A-F grading only.*

THEA 4049 - Advanced Musical Ensemble B

Units: 3

Focus on rehearsal and audition technique in preparation for beginning a career as a professional artist. Exercises to prepare for the audition setting. Making strong movement choices; learning and performing songs and scenes quickly. **Prerequisites:** *THEA 3048 and THEA 3049, or instructor approval.* **Grading:** *A-F grading only.*

Subject Area Course List (SACL) - Production & Performance

THEA 1490 - Theatre Production Activity Courses: Costume or Backstage Activity A

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

THEA 1491 - Theatre Production Activity Courses: Musical Theatre Production A

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Co-requisites:** *Concurrent enrollment in a section of DANC 2120 -DANC 2125 Musical theatre Dance A B, C, D, E, F as designated by the director of the current musical production.* **Repeatability:** May be repeated two times for credit for a maximum of 12 units for this series.

THEA 1492 - Theatre Production Activity Courses: Stage Crew Activity A

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

THEA 1493 - Theatre Production Activity Courses: Production Staff Activity A

Units: 3

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 9 units for this series.

THEA 1495 - Theatre Production Activity Courses: Studio Production Activity A

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 12 units for this series.

THEA 1497 - Theatre Production Activity Courses: Special Workshop or Production A

Units: 1-12

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Prerequisites:** *Consult department to confirm participation, assignment, course,*

and units. Only THEA 4497 may be applied to the major. **Repeatability:** May be repeated once for credit.
Grading: CR/NC grading only for THEA 1497, THEA 2497, and THEA 3497. A-F grading only for THEA 4497.

THEA 1499 - Theatre Production Activity Courses: Production Practicum A

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 12 units for this series.

THEA 2430 - Fundamental Backstage Technology: Practical Make-up

Units: 1

Basic techniques of production for performance situations. Lights course includes stage and TV. Effects course includes pyro, fog, and releases. Open to non-majors. **Repeatability:** May be repeated once with consent of department, for a maximum of 2 units. Only 1 unit may be applied to the Theatre Arts major.

THEA 2490 - Theatre Production Activity Courses: Costume or Backstage Activity B

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

THEA 2491 - Theatre Production Activity Courses: Musical Theatre Production B

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Co-requisites:** Concurrent enrollment in a section of DANC 2120 -DANC 2125 Musical theatre Dance A B, C, D, E, F as designated by the director of the current musical production. **Repeatability:** May be repeated two times for credit for a maximum of 12 units for this series.

THEA 2492 - Theatre Production Activity Courses: Stage Crew Activity B

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students,

courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

THEA 2493 - Theatre Production Activity Courses: Production Staff Activity B

Units: 3

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 9 units for this series.

THEA 2495 - Theatre Production Activity Courses: Studio Production Activity B

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 12 units for this series.

THEA 2497 - Theatre Production Activity Courses: Special Workshop or Production B

Units: 1-12

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Prerequisites:** Consult department to confirm participation, assignment, course, and units. Only THEA 4497 may be applied to the major. **Repeatability:** May be repeated once for credit. **Grading:** CR/NC grading only for THEA 1497, 2497, and THEA 3497. A-F grading only for THEA 4497.

THEA 2499 - Theatre Production Activity Courses: Production Practicum B

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 12 units for this series.

THEA 3490 - Theatre Production Activity Courses: Costume or Backstage Activity C

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses

numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

THEA 3491 - Theatre Production Activity Courses: Musical Theatre Production C

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Co-requisites:** *Concurrent enrollment in a section of DANC 2120 -DANC 2125 Musical theatre Dance A B, C, D, E, F as designated by the director of the current musical production.* **Repeatability:** May be repeated two times for credit for a maximum of 12 units for this series.

THEA 3492 - Theatre Production Activity Courses: Stage Crew Activity C

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

THEA 3493 - Theatre Production Activity Courses: Production Staff Activity C

Units: 3

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 9 units for this series.

THEA 3495 - Theatre Production Activity Courses: Studio Production Activity C

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 12 units for this series.

THEA 3497 - Theatre Production Activity Courses: Special Workshop or Production C

Units: 1-12

Participation in preproduction or performance. Consult department office for course appropriate to

desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Prerequisites:** Consult department to confirm participation, assignment, course, and units. Only THEA 4497 may be applied to the major. **Repeatability:** May be repeated once for credit. **Grading:** CR/NC grading only for THEA 1497, THEA 2497, and 3497. A-F grading only for THEA 4497.

THEA 3499 - Theatre Production Activity Courses: Production Practicum C

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 12 units for this series.

THEA 4490 - Theatre Production Activity Courses: Costume or Backstage Activity D

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

THEA 4491 - Theatre Production Activity Courses: Musical Theatre Production D

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Co-requisites:** Concurrent enrollment in a section of DANC 2120-DANC 2125 Musical theatre Dance A B, C, D, E, F as designated by the director of the current musical production. **Repeatability:** May be repeated two times for credit for a maximum of 12 units for this series.

THEA 4492 - Theatre Production Activity Courses: Stage Crew Activity D

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

THEA 4493 - Theatre Production Activity Courses: Production Staff Activity D

Units: 3

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 9 units for this series.

THEA 4495 - Theatre Production Activity Courses: Studio Production Activity D

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 12 units for this series.

THEA 4497 - Theatre Production Activity Courses: Special Workshop or Production D

Units: 1-12

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Prerequisites:** Consult department to confirm participation, assignment, course, and units. Only THEA 4497 may be applied to the major. **Repeatability:** May be repeated once for credit. **Grading:** CR/NC grading only for THEA 1497, THEA 2497, and THEA 3497. A-F grading only for THEA 4497.

THEA 4499 - Theatre Production Activity Courses: Production Practicum D

Units: 4

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 12 units for this series.

Subject Area Course List (SACL) - Technology & Design

THEA 2421 - Fundamental Backstage Technology: Wood Scenery: Walls and Levels

Units: 1

Basic techniques of production for performance situations. Lights course includes stage and TV. Effects course includes pyro, fog, and releases. Open to non-majors. **Repeatability:** May be repeated once with consent of department, for a maximum of 2 units. Only 1 unit may be applied to the Theatre Arts major.

THEA 2422 - Fundamental Backstage Technology: Costume Technique

Units: 1

Basic techniques of production for performance situations. Lights course includes stage and TV. Effects course includes pyro, fog, and releases. Open to non-majors. **Repeatability:** May be repeated once with consent of department, for a maximum of 2 units. Only 1 unit may be applied to the Theatre Arts major.

THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus

Units: 1

Basic techniques of production for performance situations. Lights course includes stage and TV. Effects course includes pyro, fog, and releases. Open to non-majors. **Repeatability:** May be repeated once with consent of department, for a maximum of 2 units. Only 1 unit may be applied to the Theatre Arts major.

THEA 2424 - Fundamental Backstage Technology: Sound: Recording

Units: 1

Basic techniques of production for performance situations. Lights course includes stage and TV. Effects course includes pyro, fog, and releases. Open to non-majors. **Repeatability:** May be repeated once with consent of department, for a maximum of 2 units. Only 1 unit may be applied to the Theatre Arts major.

THEA 2425 - Fundamental Backstage Technology: Stage Effects

Units: 1

Basic techniques of production for performance situations. Lights course includes stage and TV. Effects course includes pyro, fog, and releases. Open to non-majors. **Repeatability:** May be repeated once with consent of department, for a maximum of 2 units. Only 1 unit may be applied to the Theatre Arts major.

THEA 2428 - Fundamental Backstage Technology: Sound: PA

Units: 1

Basic techniques of production for performance situations. Lights course includes stage and TV. Effects course includes pyro, fog, and releases. Open to non-majors. **Repeatability:** May be repeated once with consent of department, for a maximum of 2 units. Only 1 unit may be applied to the Theatre Arts major.

THEA 2450 - Vectorworks CADD for Lights and Scenery

Units: 1

Extends basic drafting skills into the digital domain of CADD. Especially for light and scenery designers, but skills are applicable to other careers. Techniques sufficient to create plans for a set or to draw a light plot and stage cross section. **Repeatability:** May be repeated once for credit, for a maximum of 2 units. Only 1 unit may be applied to the Theatre Arts major.

THEA 3422 - History of Costume

Units: 4

The historic development of Western costume from Egyptian to modern styles.

THEA 3423 - Non-Western Costume

Units: 4

The development of non-Western clothing and costume. The important influences of Chinese, Japanese, Indonesian, Indian, and African clothing on all cultures. Recommended for non-majors.

THEA 3424 - Scene Painting and Graphic Language

Units: 4

Exploration of methods of scenic painting. Problems in rendering, models, and full scale painting using scenic color media, texture treatment, and light and shadow techniques.

THEA 3426 - The Art of the Kimono

Units: 4

Study of the Japanese kimono as costume in traditional Noh, Kabuki, and Bunraku drama, as well as its influence on Western fashion and theatre design. Includes history of the Kimono and construction techniques.

THEA 3427 - Fashion History

Units: 4

Overview of fashionable clothing throughout history with a focus on the 20th Century. Mainly western perspective, but includes world influences on fashion especially since the 19th Century.

THEA 3428 - Fashion Design

Units: 4

Design and technical practices in fashion from conception to the runway. Includes activities such as developing concepts, color sketching, selecting fabrics, garment construction, and dressing the model.

THEA 4418 - Advanced Makeup and Maskmaking

Units: 2

Advanced study of makeup for the theatre. Special makeup effects and mask making, including construction techniques. Use of masks as visual art. Mask techniques for teachers. **Repeatability:** May be repeated once for credit, for a maximum of 4 units.

Teacher Education

TED 3001 - Exploring Education

Units: 3

Introduction to the field of teaching. Reports and discussions related to directed observations of

preschool, elementary and secondary classrooms, and non-school educational settings. Examination of changing issues in education and their implications for future teaching practices and theories.

TED 3005 - Intermediate Field Experience in the Elementary School A

Units: 1

Observation and participation in an elementary school classroom in second quarter of blended Multiple Subject Credential: Standard Pathway/Liberal Studies Major program. Reports and discussion on issues raised. **Prerequisites:** Admission to blended Multiple Subject Credential: Standard Pathway/Liberal Studies Major Program. **Grading:** CR/NC grading only.

TED 3006 - Intermediate Field Experience in the Elementary School B

Units: 1

Observation and participation in an elementary school classroom in third quarter of blended Multiple Subject Credential: Standard Pathway/Liberal Studies Major program. Reports and discussion on issues raised. Focus on classroom management. **Prerequisites:** TED 3005. **Grading:** CR/NC grading only.

TED 3007 - Intermediate Field Experience in the Secondary School A

Units: 1

Observation and participation in a middle or high school classroom. Reports and discussion of issues raised during field experience. **Prerequisites:** Admission to Bachelors Plus Single Subject Credential Program. **Grading:** CR/NC grading only.

TED 3008 - Intermediate Field Experience in the Secondary School B

Units: 1

Observation and participation in a middle or high school classroom. Reports and discussion of issues raised during field experience. **Prerequisites:** TED 3007 and admission to Bachelors Plus Single Subject Credential Program. **Grading:** CR/NC grading only.

TED 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off campus paid or volunteer activities. **Prerequisites:** At least 2.75 GPA; departmental approval of activity. **Repeatability:** May be repeated for credit, for a maximum of 8 units. No units may be counted toward credential programs. **Grading:** CR/NC grading only.

TED 3999 - Issues in Teacher Education

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in teacher education. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

TED 4041 - Advanced Tutoring Methods in Reading, Writing and Learning Skills

Units: 4

An introduction to the theories and methods of tutoring reading, writing, and learning skills at the college level. Analysis of receptive and expressive language and learning skills and their application to the content areas. Development of tutor communication skills and diagnostic/prescriptive tutoring methods.

Prerequisites: *TED 4040.*

TED 4042 - Advanced Tutoring Methods in Mathematics and Science

Units: 4

An introduction to the theories and methods of tutoring mathematics and science at the college level. Analysis of the critical thinking, learning skills, and problem solving strategies required in math and science. Development of tutor communication skills and diagnostic/prescriptive tutoring methods.

Prerequisites: *TED 4040.*

TED 4070 - Early Childhood Education: Language and Literacy Development

Units: 4

Curriculum and instruction for language and literacy development in pre-school programs. Focus on cognition, comprehension, vocabulary, concepts about print, phonemic awareness, needs of English Language Learners, and family literacy. Field Component. **Prerequisites:** *Junior-year status and concurrent enrollment in the Human Development, Early Childhood Development Option, B.A.; or 12 quarter units of courses in child development; or a Multiple Subject Credential: Standard Pathway.*

TED 4071 - Early Childhood Education: Integrated Language Arts and Social Studies

Units: 4

Curriculum and instruction for integrated language arts and social studies in pre-school programs. Focus on literature and play, integration of language arts across the curriculum, cultural and linguistic diversity, social skills, and understanding self in relation to others. Field component. **Prerequisites:** *Junior-year status and concurrent enrollment in the Human Development, Early Childhood Development Option, B.A.; or 12 quarter units of courses in child development; or a Multiple Subject Credential: Standard Pathway.*

TED 4072 - Early Childhood Education: Integrated Math and Science

Units: 4

Curriculum and instruction for integrated math and science in pre-school programs. Focus on inquiry based math and science instruction, emergent numeracy, concepts of number and pattern, and science concepts. Field component. **Prerequisites:** *Junior-year status and concurrent enrollment in the Human Development, Early Childhood Development Option, B.A.; or 12 quarter units of courses in child development; or a Multiple Subject Credential: Standard Pathway.*

TED 4073 - Early Childhood Education: Integrated Arts

Units: 2

Curriculum and instruction for integrated arts education in pre-school programs. Focus on the integration of the visual and performing arts across the curriculum. Field component. **Prerequisites:** *Junior-year status and concurrent enrollment in the Human Development, Early Childhood Development Option, B.A.; or 12 quarter units of courses in child development; or a Multiple Subject Credential: Standard Pathway.*

TED 4074 - Early Childhood Education: Inclusive Practices

Units: 4

Developmentally appropriate practice for young children with disabilities, developmental delays, and those "at-risk". Early intervention, preschool programs, and other service delivery approaches examined from a culturally sensitive, family-focused perspective. Field component. **Prerequisites:** *Junior-year status and concurrent enrollment in the Human Development, Early Childhood Development Option, B.A.; or 12 quarter units of courses in child development; or a Multiple Subject Credential: Standard Pathway.*

TED 4075 - Early Childhood Education: Professional Seminar and Practicum

Units: 6

Culminating course in Early Childhood Education Minor. Focus on pre-school models, standards-based instruction, positive classroom environments, characteristics of effective programs, working with colleagues and families. Supervised field practicum. **Prerequisites:** *Completion of all of the following courses: TED 4070, TED 4071, TED 4072, TED 4073, and TED 4074 or permission of instructor.*

TED 4320 - Art Skills for Teachers

Units: 4

Designed specifically for teachers with little or no art experience. Work in drawing, printmaking, weaving, papier maché, puppets, masks, batik, tie dyeing, lettering. Suggestions for translating teacher skills into activities for children. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

TED 4325 - Arts Integration for Teachers

Units: 4

Designed specifically for teachers with little or no experience in the visual and performing arts. Work in integrating standards based theater, music, dance, and visual arts into elementary math, science and language arts content. **Repeatability:** May be repeated once, for a maximum of 8 units.

TED 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor for a maximum of 12 units.

Teacher Education: Graduate

TED 6010 - Seminar in Teaching and Learning Mathematics

Units: 4

Research and analysis of selected topics pertinent to Mathematics in elementary school. Reports on current research, contemporary and experimental programs, and new materials. **Prerequisites:** Consent of instructor. **Repeatability:** May be repeated for credit.

TED 6015 - Using Research to Improve Learning

Units: 4

Analysis of research findings which focus on issues, problems and interests, related to learning. Development of recommendations for improved learning in specified classes, schools, and/or districts.

TED 6020 - Research in Education

Units: 4

Basic methods of educational research. Components of a research proposal. **Prerequisites:** *Consent of Instructor. For candidates pursuing the M.S. in Education, Option in Reading Instruction, TED 6250 must be taken before TED 6020.*

TED 6021 - Seminar in Diagnosis and Treatment of Learning Difficulties in Mathematics

Units: 4

Causes and effects of mathematics learning disabilities. Methods and instruments useful in diagnosis and treatment. Evaluation of materials for the correction of mathematical learning problems. **Prerequisites:** *Consent of instructor.*

TED 6040 - Advanced Curriculum and Instruction in Mathematics

Units: 4

Historical and philosophical study of curriculum trends, modern curricular developments including use of newer instructional media, individualization of instruction, school computer usage, and evaluation techniques.

TED 6050 - Seminar in Science and Health Education Research

Units: 4

Review of recent research concerning science and health education in grades K-14. Thinking of leading science and health educators regarding purposes and programs needed in the near future. Planning for change processes in schools. **Prerequisites:** *Consent of instructor.*

TED 6070 - Graduate Studies in Early Childhood Education: Language and Literacy Development

Units: 4

Curriculum and instruction for language and literacy development in pre-school programs. Focus on

cognition, comprehension, vocabulary, concepts about print, phonemic awareness, needs of English Language Learners, and family literacy. Required professional project that integrates the professional literature and defines a leadership role, will be designed, implemented, and analyzed by the student. Field component. **Prerequisites:** *Graduate Standing; 12 units in Early Childhood Education/EC Development or Multiple Subject Teaching Credential; or permission of instructor.*

TED 6071 - Graduate Studies in Early Childhood Education: Integrated Language Arts and Social Studies

Units: 4

Curriculum and instruction for integrated language arts and social studies in pre-school programs. Focus on literature and play, integration of language arts across the curriculum, cultural and linguistic diversity, social skills, and understanding self in relation to others. Required professional project that integrates the professional literature and defines a leadership role, will be designed, implemented, and analyzed by the student. Field component. **Prerequisites:** *Graduate Standing; 12 units in Early Childhood Education/EC Development or Multiple Subject Teaching Credential; or permission of instructor.*

TED 6072 - Graduate Studies in Early Childhood Education: Integrated Mathematics and Science

Units: 4

Curriculum and instruction for integrated math and science in pre-school programs. Focus on inquiry based math and science instruction, emergent numeracy, concepts of number and pattern, and science concepts. Required professional project that integrates the professional literature and defines a leadership role, will be designed, implemented, and analyzed by student. Field component. **Prerequisites:** *Graduate Standing; 12 units in Early Childhood Education/EC Development or Multiple Subject Teaching Credential; or permission of instructor.*

TED 6073 - Graduate Studies in Early Childhood Education: Integrated Arts

Units: 2

Curriculum and instruction for integrated arts education in pre-school programs. Focus on the integration of the visual and performing arts across the curriculum. Required professional project that integrates the professional literature and defines a leadership role, will be designed, implemented, and analyzed by student. Field component. **Prerequisites:** *Graduate Standing; 12 units in Early Childhood Education/EC Development or Multiple Subject Teaching Credential; or permission of instructor.*

TED 6074 - Graduate Studies in Early Childhood Education: Integrated Arts

Units: 4

Developmentally appropriate practice for young children with disabilities, developmental delays, and those "at-risk". Early intervention, preschool programs, and other service delivery approaches examined from a culturally sensitive, family-focused perspective. Required professional project that integrates the professional literature and defines a leadership role, will be designed, implemented, and analyzed by

student. Field component. **Prerequisites:** *Graduate Standing; TED 6070, TED 6071, TED 6072, TED 6073; or permission of instructor.*

TED 6075 - Early Childhood Education: Professional Leadership Seminar

Units: 4

Culminating course in ECE. Focus on effective models delivering professional development, advocacy and working with families. **Prerequisites:** *TED 4070, TED 4071, TED 4072, TED 4073, TED 4074 and/or permission of instructor. Must take concurrently with TED 6076.*

TED 6076 - Early Childhood Education: Professional Practicum

Units: 4

Supervised field practicum. Includes clinical supervision model, mentoring and reflective practice.

Prerequisites: *TED 4070, TED 4071, TED 4072, TED 4073, TED 4074, or permission of instructor. Co-requisites: Must take concurrently with TED 6075.*

TED 6124 - Advanced Study in Multicultural Education

Units: 4

Analysis of research on educational policies and practices regarding the development of ethnic identity; compensatory and cross-cultural education. Application to implementation of school programs.

Prerequisites: *TED 5038 or consent of instructor.*

TED 6220 - Focus on Diversity

Units: 4

Review research; develop a culture of literacy capitalizing on students' diverse knowledge and skills; support second language development; plan, implement and assess instruction to students for diverse ethnic, cultural and socioeconomic groups.

TED 6230 - Reading/Language Arts: Literacy Research and Methods I

Units: 4

Review research; learn normal progression of literacy development relative to grade level standards; plan, implement and assess research based literacy instruction including phonemic awareness, phonics, fluency and writing for pre-K and up. **Grading:** *A-F grading only.*

TED 6231 - Reading/Language Arts: Literacy Assessment and Intervention I

Units: 4

Review research; introduction to principles of formal and informal literacy-based assessments; learn to select, administer and evaluate assessment data for different audiences and purposes.

TED 6232 - Reading/Language Arts: Literacy Assessment and Intervention II

Units: 4

Review research; learn to assess, instruct and provide intervention for each component of research based literacy instruction; modify the curriculum to address specific needs of students; interpret and use assessment data to inform placement and intervention decisions. **Prerequisites:** TED 6231

TED 6246 - Critical Analysis of Children's Literature

Units: 3

Critical analysis of literature intended for children. Study of various literary forms. Extensive readings on children's literature. **Prerequisites:** 14 Units in children's literature. **Repeatability:** May be repeated once for credit, for a maximum of 6 units.

TED 6250 - Reading Research and Evaluation

Units: 4

Introduction to research and evaluation of literacy development. **Prerequisites:** For candidates pursuing the MS in Education, Option in Reading Instruction, TED 6250 must be taken before TED 6020.

TED 6251 - Reading/Language Arts: Field Experience

Units: 3

Observation and evaluation of an exemplary school's reading and language arts program. Observation and collaboration with a certified practicing reading specialist. **Prerequisites:** TED 6232 or permission of instructor.

TED 6253 - Reading/Language Arts: Literacy Research and Methods II

Units: 4

Review research; plan, implement and assess research based literacy instruction including oral language, vocabulary and reading comprehension for pre-K and up; facilitate use of print media and digital resources.

TED 6300 - Foundations of Curriculum Development

Units: 4

Determinants of curricula in elementary and secondary schools. Effects of national goals, state legislation, and community forces on curriculum development. Theories and patterns of curriculum organization.

TED 6416 - Development of Environmental Education

Units: 4

History, needs, conceptual framework, trends and types of programs in the United States and the world. Review of literature and dissertations and masters' theses. **Prerequisites:** Consent of instructor.

TED 6440 - Curriculum in Science and Health Education

Units: 4

Analysis of various curricular programs and materials for the teaching of science and/or health in grades K-12.

TED 6700 - Advanced Educational Psychology

Units: 4

Theories and research that comprise the knowledge base for the field of educational psychology.

TED 6898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least 3.0 GPA; departmental approval of activity.*

Repeatability: May be repeated for credit, for a maximum of 8 units. No units may be counted toward credential programs. **Grading:** *CR/NC grading only.*

TED 6899 - Project

Units: 2-5

Development of an original product which is summarized in a written abstract. Both the project and the abstract are submitted to the department which specifies their formats. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense may be required. **Prerequisites:** *Graduate standing.* **Repeatability:** May be repeated for credit, for a maximum of 5 units.

TED 6900 - Independent Study

Units: 1-4

TED 6901 - Graduate Synthesis

Units: 4

Alternative to thesis/project. Implementation of action research. Creation of professional development plan and reflection on graduate program. Includes comprehensive examination. **Prerequisites:** Consent of instructor.

TED 6902 - Action Research and Writing: APA Style, Human Subjects, Campus Resources

Units: 2

Process for successfully completing action (classroom-based) research and writing. Emphasis on American Psychological Association (APA) style and process for gaining campus Human Subjects approval. Campus resources to support research and writing. **Co-requisites:** *Concurrent enrollment in TED 6300.* **Grading:** A-F grading only.

TED 6903 - Action Research and Writing: Research Synthesis and Topic Definition

Units: 2

Process for successfully completing action (classroom-based) research and writing. Emphasis on synthesizing published research on a specific topic and defining a topic for action research. **Co-requisites:** Concurrent enrollment in TED 6700. **Grading:** A-F grading only.

TED 6904 - Action Research and Writing: Project Design

Units: 2

Process for successfully completing action (classroom-based) research and writing. Emphasis on the components of a feasible action research project. **Co-requisites:** *Concurrent enrollment in TED 6020.* **Grading:** A-F grading only.

TED 6905 - Action Research and Writing: Reflection and Professional Development

Units: 2

Process for successfully completing action (classroom-based) research and writing. Reflection on the experience of completing an action research project. Definition of future professional development agenda. **Co-requisites:** *Concurrent enrollment in TED 6901.* **Grading:** A-F grading only.

TED 6909 - Departmental Thesis

Units: 2-5

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. **Prerequisites:** *Graduate standing. May be repeated for credit, for a maximum of 5 units.*

TED 6910 - University Thesis

Units: 1-6

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required. (See also, "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Note: see Errata chapter in this catalog for minor change to this course. **Prerequisites:** *Graduate standing.*

Repeatability: May be repeated for credit, for a maximum of 6 units.

TED 6999 - Issues in Teacher Education

Units: 1-4

Readings, discussion, and research on contemporary and/or significant issues in teacher education.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.

Teacher Education: Post-Baccalaureate

TED 5061 - TPA Subject-Specific Pedagogy Task I Tutorial

Units: 2

Tutorial and assessment of re-submitted Teaching Performance Assessment (TPA) Subject-Specific Pedagogy Task I. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.*

TED 5062 - TPA Designing Instruction Task II Tutorial

Units: 2

Tutorial and assessment of re-submitted Teaching Performance Assessment (TPA) Designing Instruction Task II. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.*

TED 5063 - TPA Culminating Teaching Experience Task III Tutorial

Units: 2

Tutorial and assessment of re-submitted Teaching Performance Assessment (TPA) Assessing Learning Task III. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.*

TED 5064 - TPA Culminating Teaching Experience Task IV Tutorial

Units: 2

Tutorial and assessment of re-submitted Teaching Performance Assessment (TPA) Culminating Experience Task IV. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.*

TED 5110 - Computer-Based Technology in the Classroom I

Units: 3

General and specific knowledge and skills appropriate for beginning teachers. Hardware and software terminology, operation, troubleshooting, record management, e-mail, collaborative tools, copyright, privacy, security and safety issues. Relevance for K-12 student learning. **Prerequisites:** *Junior standing.*

TED 5211 - TPA Subject-Specific Pedagogy Task I Assessment

Units: 1

Assessment of the Teaching Performance Assessment (TPA) Subject-Specific Pedagogy Task I. Course taught online. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.*

TED 5212 - TPA Designing Instruction Task II Assessment

Units: 1

Assessment of the Teaching Performance Assessment (TPA) Designing Instruction Task II. Course taught online. **Prerequisites:** Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.

TED 5213 - TPA Assessing Learning Task III Assessment

Units: 1

Assessment of the Teaching Performance Assessment (TPA) Assessing Learning Task III. Course taught online. **Prerequisites:** Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.

TED 5214 - TPA Culminating Teaching Experience Task IV Assessment

Units: 1

Assessment of the Teaching Performance Assessment (TPA) Culminating Teaching Experience Task IV. Course taught online. **Prerequisites:** Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.

TED 5242 - Teaching Multicultural Literature to Children

Units: 4

Analysis and selection of books focuses on multicultural populations that present accurate and positive depictions. Emphasis on the integration and use of these books in the classroom.

TED 5301 - Psychological Foundations in Middle and Secondary School Education

Units: 4

Analysis of teaching and learning using psychological theory and research. Emphasis on social and cognitive development, learning processes, motivation, evaluation, applications to students with varying cultural and linguistic backgrounds, ages, and motivation levels. Introduction to the Teaching Performance Assessment (TPA). **Prerequisites:** Admission to the Single Subject Credential Program.

TED 5305 - Social/Cultural Context of Education

Units: 3

A study of the philosophy, history, and sociology of American education with emphasis on the issues of ethnicity and gender and the skills necessary to incorporate diversity into curriculum and instruction to make equitable secondary school classrooms. **Prerequisites:** Admission to the Single Subject Credential Program.

TED 5306 - Teaching and Learning in the Single Subject Classroom II

Units: 7

Introduction to theory and practice for teaching in single subject classrooms. Focus on environment,

development, assessment, professionalism, diversity, technology, and literacy. Application in beginning weeks of a teaching assignment. **Prerequisites:** *TED 5306.*

TED 5308 - Teaching and Learning in the Single Subject Classroom III

Units: 7

Theory and practice for teaching in single subject classrooms. Focus on environment, development, assessment, professionalism, diversity, technology, and literacy. Emphasis on individual differences among students. **Prerequisites:** *TED 5306, TED 5307.*

TED 5309 - Teaching and Learning in the Single Subject Classroom IV

Units: 7

Synthesis of theory and practice for teaching in single subject classrooms. Focus on environment, development, assessment, professionalism, diversity, technology, and literacy. Emphasis on individual differences among students. **Prerequisites:** *TED 5306, TED 5307, TED 5308.*

TED 5311 - Classroom Environment

Units: 2

Strategies for a productive classroom learning environment. Models of classroom management, crisis prevention, and conflict resolution. Introduction to school law. Focus on either elementary or secondary classrooms. **Prerequisites:** *Admission to Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.*

TED 5314 - Teaching Special Populations in Regular Classrooms

Units: 3

Development of effective patterns, strategies, materials to assist pre-service teachers to work with the broad range of "identified," "gifted," and "at-risk" students in the regular classroom. Overview of basic concepts, issues and effective practices.

TED 5318 - Professional Responsibilities

Units: 3

Professional issues, rights and responsibilities of teachers and students. Self-assessment and self-direction for continuing professional growth. **Prerequisites:** *Admission to the Single Subject Credential Program.*

TED 5320 - Content Literacy

Units: 3

Theory, research, and instructional methodology to teach content-based reading and writing skills to a full range of secondary-school students, including struggling readers, students with special needs, English learners and speakers of non-standard English, and advanced learners. **Prerequisites:** *Admission to the Single Subject Credential Program.*

TED 5326 - Preparation to Teach English Learners in the Single Subject Classroom

Units: 3

Principles, policies, and practices that address the English language and subject matter learning needs of English learners. **Prerequisites:** *Admission to the Single Subject Credential Program.*

TED 5333 - Teaching Performance Assessment for Early Completion

Units: 4

Preparation assistance, administration and scoring of Teaching Performance Assessment for Multiple Subject Credential: Standard Pathway and Single Subject Credential intern-candidates under SB-57 Early Completion. **Prerequisites:** *Must have passed Teaching Foundations exam and be classified as intern-candidate for Early Completion under SB-57.* **Repeatability:** May be repeated two times for credit, for a maximum of 12 units.

TED 5347 - Student Teaching A in Blended Program

Units: 4

First quarter of a supervised student teaching in an elementary school classroom for four mornings and one afternoon a week. **Prerequisites:** *Admission to blended Multiple Subject Credential: Standard Pathway/Liberal Studies program, senior standing.*

TED 5348 - Student Teaching B in Blended Program

Units: 6

Second quarter of supervised student teaching in an elementary school classroom for four mornings and three afternoons a week. Minimum of one week solo teaching. **Prerequisites:** *TED 5347.*

TED 5349 - Student Teaching C in Blended Program

Units: 9

Third quarter of supervised student teaching in an elementary school classroom for five mornings and two afternoons a week. Minimum of two-weeks of all-day, solo teaching. **Prerequisites:** *TED 5348.*

TED 5350 - Curriculum and Instruction: Mathematics in the Elementary School

Units: 3

Theory, content and methods of teaching mathematics in the elementary classroom. Emphasis on number systems, operations, problem solving, assessment, computer assisted instruction, resource materials, and sheltered instruction for English Learners. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5351 - Psychological Foundations of Education and Planning for Instruction

Units: 4

Research-based theories and principles of human learning and development and their application to elementary school classroom settings. Data-gathering techniques on students' physical, social, and emotional development. Basic principles of instructional planning in a standards-based curriculum. Introduction to the Teaching Performance Assessment (TPA). **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5352 - Curriculum and Instruction: Reading/Language Arts in the Elementary School-A

Units: 3

Development of a balanced, comprehensive program in reading, writing, and related language instruction in K-8 classrooms. Focus on meeting the needs of the full range of learners, planning instruction based on the 2007 Reading/Language Arts Framework, phonological and phonemic awareness, concepts about print, phonics and sight words, spelling instruction and fluency. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5354 - Student Teaching I

Units: 5

Required field experience for Multiple Subject Credential: Standard Pathway candidates. **Prerequisites:** *Approval by department.*

TED 5355 - Equity and Diversity/Teaching English Learners A

Units: 4

Principles of equity and diversity and their implementation in curriculum content and school practices in elementary school classrooms. Knowledge, skills, and abilities to deliver comprehensive instruction to English Learners. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5356 - Curriculum and Instruction: Reading/Language Arts in the Elementary School-B

Units: 3

Development of a balanced, comprehensive program in reading, writing, and related language instruction in K-8 classrooms. Focus on meeting the needs of the full range of learners, planning instruction based on the 2007 Reading/Language Arts Framework, assessment, syllabic and structural analysis, vocabulary, factors affecting reading comprehension, how to facilitate reading comprehension. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5357 - Curriculum and Instruction: Teaching Science, Health and Safety in the Elementary School

Units: 3

Models, methods, and materials for teaching science, health and safety in elementary schools. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5359 - Student Teaching II

Units: 6

Required field experience for Multiple Subject Credential: Standard Pathway candidates. **Prerequisites:** *Approval by department.*

TED 5360 - Curriculum and Instruction: Reading/Language Arts and Social Studies in the Elementary School

Units: 4

Curriculum and instruction to teach reading/language arts and social studies in K-8 classrooms. Focus on meeting the needs of the full range of learners, writing and oral language development, literary response and analysis, English language conventions, student independent reading, comprehension of expository/informational texts, study and research skills, methodology for teaching social studies, integrated instruction. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5361 - Student Teaching III

Units: 6

Required field experience for Multiple Subject Credential: Standard Pathway candidates. **Prerequisites:** *Approval by department.*

TED 5366 - Equity and Diversity/Teaching English Learners B

Units: 3

Review and synthesis of (1) Principles of equity and diversity and their implementation in curriculum content and school practices in elementary school classrooms; and (2) Knowledge, skills, and abilities to deliver comprehensive instruction to English Learners. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5367 - Bilingual Methods

Units: 3

Theory, content, materials of dual-language acquisition and development. Strategies for primary language instruction in various areas to provide equal access to the core curriculum.

TED 5371 - Classroom Implications of the Culture of the Latino Child

Units: 3

Focus on major historical experiences of various Latino groups in the United States (pre-Columbian period, the Conquest, colonial period, years of independence, contemporary U.S. life) and their implications for the classroom teacher. Emphasis on cultural commonalities, demographics, immigration, educational patterns, and general relationships among Latinos and the majority culture which influence teaching and learning. Taught in Spanish. **Prerequisites:** *Permission of department.*

TED 5372 - Team Seminar I: Orientation to TPA Subject-Specific Pedagogy Task I and Reflection on Field Practice

Units: 1

Orientation to the Teaching Performance Assessment (TPA) Subject-Specific Pedagogy Task I. Guided reflection on assigned field experience. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.*

TED 5373 - Team Seminar II: Orientation to TPA Designing Instruction Task II and Reflection on Field Practice

Units: 1

Orientation to the Teaching Performance Assessment (TPA) Task Designing Instruction Task II. Guided reflection on assigned field experience. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.*

TED 5374 - Team Seminar III: Orientation to TPA Assessing Learning Task III and Reflection on Field Practice

Units: 1

Orientation to the Teaching Performance Assessment (TPA) Assessing Learning Task III. Guided reflection on assigned field experience. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.*

TED 5375 - Team Seminar IV: Orientation to TPA Culminating Teaching Experience Task IV and Reflection on Field Practice

Units: 1

Orientation to the Teaching Performance Assessment (TPA) Culminating Teaching Experience Task IV. Guided reflection on assigned field experience. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway or Single Subject Credential Program.*

TED 5376 - Curriculum and Instruction: Physical Education Methods

Units: 1

Strategies for teaching physical education and recreational activities as well as components of a healthy lifestyle. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5377 - Curriculum and Instruction: Visual and Performing Arts Methods

Units: 2

Specific teaching strategies that are effective in achieving the goals of artistic perception; creative expression; understanding the cultural and historical origins of the arts; pursuing meaning in the arts; and making informed judgments about the arts. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5378 - Teaching Special Populations in General Education Settings

Units: 4

Development of effective patterns, strategies, materials to assist prospective teachers to work with the broad range of "identified," "gifted" and "at-risk" students attending schools in grades K-12. Overview of appropriate differentiated, individualized and classroom instructional strategies for general education settings. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5380 - Health and Safety in the Secondary School

Units: 2

Identification of major laws, concepts, and principles related to student health and safety; site, district, and community resources.

TED 5381 - Field Experience in the Single Subject Classroom A

Units: 7

First supervised placement as an intern or student teacher in a single subject classroom. **Prerequisites:** *Permission of department.*

TED 5382 - Field Experience in the Single Subject Classroom B

Units: 7

Second supervised placement as an intern or student teacher in a single subject classroom. **Prerequisites:** *Permission of department.*

TED 5383 - Field Experience in the Single Subject Classroom C

Units: 7

Third supervised placement as an intern or student teacher in a single subject classroom. **Prerequisites:** *Permission of department.*

TED 5443 - Student Teaching A in Bachelors Plus Program

Units: 4

First quarter of supervised student teaching in a secondary school classroom for two hours, five days a week. Minimum of one week of solo teaching. **Prerequisites:** *Senior standing in the Bachelors Plus Single Subject Credential Program.*

TED 5444 - Student Teaching B in Bachelors Plus Program

Units: 4

Second quarter of supervised student teaching in a secondary school classroom for five mornings a week. **Prerequisites:** *TED 5443.*

TED 5445 - Student Teaching C in Bachelors Plus Program

Units: 9

Third quarter of supervised student teaching in a secondary school classroom for five mornings a week. Minimum of two weeks of solo teaching. **Prerequisites:** *TED 5444.*

TED 5446 - Social Studies I - Instructional Methods in Single Subject Classroom

Units: 2

Introduction to theory and practice of instructional methodology in a single subject classroom. Separate courses for art, English, foreign languages, mathematics, music, physical education, science, and social studies. **Prerequisites:** *Admission to Single Subject Credential Program.* **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5447 - Social Studies II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. Separate courses for art, English, foreign languages, mathematics, music, physical education, science, and social studies. **Prerequisites:** *TED 5446.* **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5448 - Social Studies III - Instructional Methods in Single Subject Classroom: Focus on Literacy

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. Separate courses for art, English, foreign languages, mathematics, music, physical education, science, and social studies. **Prerequisites:** *TED 5446, TED 5447.* **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5449 - Social Studies IV - Instructional Methods in Single Subject Classroom: Focus on Equity

Units: 2

Synthesis of theory and practice of instructional methodology in a single subject classroom. Separate courses for art, English, foreign languages, mathematics, music, physical education, science, and social studies. **Prerequisites:** *TED 5446, TED 5447, TED 5448.* **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5450 - English I - Instructional Methods in Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom. Separate courses for art, English, foreign languages, mathematics, music, physical education, science, and social

studies. **Prerequisites:** *Admission to Single Subject Credential Program.* **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5451 - English II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. Separate courses for art, English, foreign languages, mathematics, music, physical education, science, and social studies. **Prerequisites:** *TED 5454.* **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5452 - English III - Instructional Methods in Single Subject Classroom: Focus on Literacy

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. Separate courses for art, English, foreign languages, mathematics, music, physical education, science, and social studies. **Prerequisites:** TED 5450, TED 5451. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5453 - English IV - Instructional Methods in Single Subject Classroom: Focus on Equity

Units: 2

Synthesis of theory and practice of instructional methodology in a single subject classroom. Separate courses for art, English, foreign languages, mathematics, music, physical education, science, and social studies. **Prerequisites:** TED 5450, TED 5451, TED 5452. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5454 - Math I - Instructional Methods in Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom. Separate courses for art, English, foreign languages, mathematics, music, physical education, science, and social studies. **Prerequisites:** *Admission to Single Subject Credential Program.* **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5455 - Math II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. Separate courses for art, English, foreign languages,

mathematics, music, physical education, science, and social studies. **Prerequisites:** TED 5454. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5456 - Math III - Instructional Methods in Single Subject Classroom: Focus on Literacy

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** TED 5454, TED 5455. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5457 - Math IV - Instructional Methods in Single Subject Classroom: Focus on Equity

Units: 2

Synthesis of theory and practice of instructional methodology in a single subject classroom. **Prerequisites:** TED 5454, TED 5455, TED 5456. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5458 - Science I - Instructional Methods in Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom. **Prerequisites:** Admission to Single Subject Credential Program. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5459 - Science II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** TED 5458. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5460 - Science III - Instructional Methods in Single Subject Classroom: Focus on Literacy

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** TED 5458, TED 5459. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5461 - Science IV - Instructional Methods in Single Subject Classroom: Focus on Equity

Units: 2

Synthesis of theory and practice of instructional methodology in a single subject classroom. **Prerequisites:** TED 5458, TED 5459, TED 5460. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5462 - ART I - Instructional Methods in Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom.

Prerequisites: Admission to Single Subject Credential Program. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5463 - ART II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** TED 5462. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5464 - ART III - Instructional Methods in Single Subject Classroom: Focus on Literacy

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** TED 5462, TED 5463. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5465 - ART IV - Instructional Methods in Single Subject Classroom: Focus on Equity

Units: 2

Synthesis of theory and practice of instructional methodology in a single subject classroom. **Prerequisites:** TED 5462, TED 5463, TED 5464. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5466 - Music I - Instructional Methods in Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom.

Prerequisites: Admission to Single Subject Credential Program. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5467 - Music II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the

beginning weeks of a teaching assignment. **Prerequisites:** *TED 5466*. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5468 - Music III - Instructional Methods in Single Subject Classroom: Focus on Literacy

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** *TED 5466, TED 5467*. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5469 - Music IV - Instructional Methods in Single Subject Classroom: Focus on Equity

Units: 2

Synthesis of theory and practice of instructional methodology in a single subject classroom. **Prerequisites:** *TED 5466, TED 5467, TED 5468*. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5470 - Spanish I - Instructional Methods in Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom. **Prerequisites:** *Admission to Single Subject Credential Program*. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5471 - Spanish II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** *TED 5470*. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5472 - Spanish III - Instructional Methods in Single Subject Classroom: Focus on Literacy

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** *TED 5470, TED 5471*. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5473 - Spanish IV - Instructional Methods in Single Subject Classroom: Focus on Equity

Units: 2

Synthesis of theory and practice of instructional methodology in a single subject classroom. **Prerequisites:** TED 5470, TED 5471, TED 5472. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5474 - Hindi I - Instructional Methods in Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom.

Prerequisites: Admission to Single Subject Credential Program. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5475 - Hindi II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** TED 5474. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5476 - Hindi III - Instructional Methods in Single Subject Classroom: Focus on Literacy

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** TED 5474, TED 5475. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5477 - Hindi IV - Instructional Methods in Single Subject Classroom: Focus on Equity

Units: 2

Synthesis of theory and practice of instructional methodology in a single subject classroom. **Prerequisites:** TED 5474, TED 5475, TED 5476. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5478 - PhysEd I - Instructional Methods in Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom.

Prerequisites: Admission to Single Subject Credential Program. **Credit Restrictions:** Not open to those with credit in TED 5390.

TED 5479 - PhysEd II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** *TED 5478*. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5480 - PhysEd III - Instructional Methods in Single Subject Classroom: Focus on Literacy

Units: 2

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. **Prerequisites:** *TED 5478, TED 5479*. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5481 - PhysEd IV - Instructional Methods in Single Subject Classroom: Focus on Equity

Units: 2

Synthesis of theory and practice of instructional methodology in a single subject classroom. **Prerequisites:** *TED 5478, TED 5479, TED 5480*. **Credit Restrictions:** Not open to those with credit for TED 5390.

TED 5512 - Reading/Language Arts for the Multiple Subject Teacher

Units: 4

Examines current research and practice for literacy development for students in grades K-8. Includes, but is not limited to acquisition of literacy, phonemic awareness, word attack strategies, fluency, spelling, writing, comprehension, content area reading, assessment, English Language Learners, managing and organizing for instruction. Satisfies out-of-state Reading class requirement. **Prerequisites:** *Out-of-state basic multiple subject teaching credential or approval of instructor*.

TED 5549 - Foundations of Teaching: Principles and Practices in Early Childhood Education

Units: 6

Exploration of pre-kindergarten schools, including principles of developmentally appropriate curricula, organization and structure, roles of parents, federal, state, and local policy, and characteristics of the pre-kindergarten child. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway, TK3 Pathway*.

TED 5550 - Psychological Foundations of Education and Classroom Environments

Units: 4

Theories and principles of human learning and their application to elementary school settings. Strategies for a productive classroom environment. Special emphasis on TK-3 children and classrooms. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway*.

TED 5551 - Curriculum and Instruction: Mathematics and Technology in the Elementary School

Units: 4

Theory, content, and methods of teaching mathematics in the elementary classroom. Use of computer-based technology. Special emphasis on TK-3 children and classrooms. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5552 - Curriculum and Instruction: Reading/Language Arts in the Elementary School - A

Units: 4

Theory, content, and methods of teaching reading/language arts in an elementary classroom. Focus on meeting the needs of all learners, instructional planning, phonological and phonemic awareness, concepts about print, phonics and sight words, spelling instruction, and fluency. Special emphasis on TK-3 children and classrooms. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5553 - Curriculum and Instruction: Reading/Language Arts in the Elementary School - B

Units: 4

Theory, content, and methods of teaching reading/language arts in an elementary classroom. Focus on meeting the needs of all learners, assessment, syllabic and structural analysis, vocabulary, and comprehension. Special emphasis on TK-3 children and classrooms. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5554 - Curriculum and Instruction: Teaching English Learners in the Elementary School

Units: 4

Theory, content, and methods of teaching English Learners in an elementary classroom. Special emphasis on TK-3 children and classrooms. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5555 - Curriculum and Instruction: Science, Health, Safety, and Technology in the Elementary School

Units: 4

Theory, content, and methods of teaching science, health, safety, in an elementary classroom. Use of computer-based technology. Special emphasis on TK-3 children and classrooms. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5556 - Curriculum and Instruction: Equity, Diversity and Social Studies in the Elementary School

Units: 4

Principles of equity and diversity and their implementation in an elementary classroom. Theory, content, and methods of teaching social studies in an elementary classroom. Special emphasis on TK-3 children and classrooms. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5557 - Curriculum and Instruction: Visual & Performing Arts and Physical Education Methods in the Elementary School

Units: 3

Theory, content, and methods of teaching the visual arts, performing arts, and physical education in an elementary classroom. Special emphasis on TK-3 children and classrooms. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5560 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar I

Units: 1

Reflection and discussion of the first student teaching experience in the TK3 Pathway. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5561 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar II

Units: 1

Reflection and discussion of the second student teaching experience in the TK3 Pathway. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5562 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar III

Units: 1

Reflection and discussion of the third student teaching experience in the TK3 Pathway. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5563 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar IV

Units: 1

Reflection and discussion of the fourth student teaching experience in the TK3 Pathway. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5564 - Multiple Subject Transitional Kindergarten to Grade 3 PACT Seminar I

Units: 1

Orientation to successful completion of the Performance Assessment of California Teachers (PACT).

Prerequisites: *Admission to the Multiple Subject Credential: Standard Pathway Program.*

TED 5565 - Multiple Subject Transitional Kindergarten to Grade 3 PACT Seminar II

Units: 1

Further exploration of the Performance Assessment of California Teachers (PACT). **Prerequisites:**

Admission to the Multiple Subject Credential: Standard Pathway Program.

TED 5566 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching I

Units: 2

First quarter of student teaching in the TK3 Pathway. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5567 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching II

Units: 4

Second quarter of student teaching in the TK3 Pathway. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5568 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching III

Units: 5

Third quarter of student teaching in the TK3 Pathway. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5569 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching IV

Units: 6

Fourth quarter of student teaching in the TK3 Pathway. **Prerequisites:** *Admission to the Multiple Subject Credential: Standard Pathway Program, TK3 Pathway.*

TED 5700 - Reflections on Professional Practice: a Supportive Environment for Student Learning

Units: 2

Theory, research, and best practice on establishing a productive environment in a K-12 classroom. Focus on creating an equitable classroom for all students. **Prerequisites:** *Preliminary or Level I Teaching Credential; admission to the Multiple Subject Credential: Standard Pathway program.*

TED 5702 - Reflections on Professional Practice: Assessing Instructional Experiences

Units: 2

Theory, research, and best practice on assessing the instructional experiences in a K-12 classroom. Focus

on options for gathering, analyzing and sharing data. **Prerequisites:** *Preliminary or Level I Teaching Credential; admission to the Multiple Subject Credential: Standard Pathway program.*

TED 5703 - Reflections on Professional Practice: Instructional Planning, The Lesson

Units: 2

Theory, research, and best practice on instructional planning in a K-12 classroom. Focus on elements of effective lessons. **Prerequisites:** *Preliminary or Level I Teaching Credential; admission to the Multiple Subject Credential: Standard Pathway program.*

TED 5704 - Reflections on Professional Practice: Standards-Based Instruction

Units: 2

Theory, research, and best practice for instruction in a standards-based system. Focus on instructional implications of California's K-12 content standards. **Prerequisites:** *Preliminary or Level I Teaching Credential; admission to the Multiple Subject Credential: Standard Pathway program.*

TED 5705 - Reflections on Professional Practice: Instructional Planning

Units: 2

Theory, research, and best practices on instructional planning in a K-12 classroom. Focus on units of study. **Prerequisites:** *Preliminary or Level I Teaching Credential; admission to the Multiple Subject Credential: Standard Pathway program.*

TED 5706 - Reflections on Professional Practice: Standards-Based Assessment

Units: 2

Theoretical foundations, research, and best practices on assessing student achievement of K-12 content standards. Focus on the development of reliable, valid, and pragmatic assessment. **Prerequisites:** *Preliminary or Level I Teaching Credential; admission to the Multiple Subject Credential: Standard Pathway program.*

TED 5900 - Independent Study

Units: 1-4

Theatre Arts: Activity

THEA 1494 - Theatre Production Activity Courses: Festival Activity A

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students,

courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

THEA 2494 - Theatre Production Activity Courses: Festival Activity B

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

THEA 3494 - Theatre Production Activity Courses: Festival Activity C

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

THEA 4494 - Theatre Production Activity Courses: Festival Activity D

Units: 2

Participation in preproduction or performance. Consult department office for course appropriate to desired assignment. First-year students take courses numbered 1490-1499; second-year students, courses numbered 2490-2499; third-year students, courses numbered 3490-3499; and fourth-year students, courses numbered 4490-4499. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units for this series.

Theatre Arts: Theatre

THEA 1005 - How to See a Play

Units: 4

An introduction to contemporary drama on the stage. How the printed play is translated into visual and aural images. Attendance at selected theatre events is required. Recommended for non-majors.

THEA 1006 - A Peek Behind the Scenes

Units: 4

The artistic and production process involved in mounting a show. The current theatre or dance show as it happens from construction and rehearsal to opening and audience response. How literature or ideas are interpreted and rendered into live entertainment.

THEA 1013 - Ancient World Theatre

Units: 4

Dramatic texts of ancient theatre, especially ancient Greek and Roman periods. Special emphasis on performance space, costumes, and masks. Exercises to reveal how theatre artists analyze literature.

THEA 1016 - All the World's a Stage: Theatre for Social Change

Units: 4

Ethnic, racial, and gender obstacles to creative expression in theatre; artists as outlaws, rebels and people outside the mainstream. Plays of artists working for social change in the U.S. Play attendance required.

Credit Restrictions: Not open to students with credit for THEA 1010.

THEA 1020 - Discover Acting

Units: 3

Introduction to acting techniques to improve self-expression and observation skills. An introductory acting course designed for non- majors. Suitable as an elective for those who work with people of all ages in education, recreation, business and mass communication.

THEA 1021 - Black Experience in Performance

Units: 4

Study of slave journals, blues, plays, poetry, and various performance traditions created by African Americans and their effect on artistic development in the United States and abroad. Exercises in script and manuscript analysis, acting, and directing.

THEA 2072 - Cultural Groups in Performance

Units: 4

Production, rehearsal, and performance of a show that focuses on a specific cultural group. Attend first meeting or call department for cultural theme. Only 4 units credit from THEA 2072 or THEA 3072 is applicable to the Theatre Arts major. **Repeatability:** THEA 2072 and THEA 3072 may be repeated for credit, for a combined maximum of 16 units.

THEA 2073 - Beginning Solo Plays from Personal Experience A

Units: 3

Making your point using personal experiences. Writing and performance techniques that maximize impact for your audience.

THEA 2075 - Beginning Solo Plays from Personal Experience C

Units: 3

Making your point using personal experiences. Writing and performance techniques that maximize impact for your audience.

THEA 2078 - Solo Performance: Production

Units: 4

Production, rehearsal, and performance of a touring performance or show that focuses on plays developed in the Solo Performance series. **Repeatability:** May be repeated once for credit, for a maximum of 8 units. Only 4 units credit from THEA 2078 or THEA 3078 may be applied to meet a department Production and Performance requirement.

THEA 2211 - Asian Thought in Theatre

Units: 4

Asian thought as portrayed in Asian Performance and the role of Asian thought and performance techniques in U.S. and world theatre.

THEA 2212 - From Stage to Screen: Dramas and the Films They Inspired

Units: 4

Great works of dramatic literature from Classical Greece to modern times compared with films based on them. Exploration of intellectual, social, political, and personal issues raised in these works. Stage and film methods compared.

THEA 2214 - The Plays of Arthur Miller

Units: 4

The major plays of Arthur Miller and their social, political, and philosophical significance for American lives and culture. Students will perform key scenes. Field trips may be required.

THEA 2223 - Queering the Stage: Gay, Lesbian, Bisexual and Transgender Theatre in America

Units: 4

How foundational works in GLBT Theatre both illuminate and are defined by contemporary American intellectual and cultural concerns, such as identity, navigating dual identity, confronting oppression, prejudice, violence, and negotiating a place in the traditional social framework.

THEA 2225 - America on Stage

Units: 4

Overview of American Theatre from its beginning to the present, including reflection on the values and culture of a changing America portrayed on the stage.

THEA 2226 - Women in Performance

Units: 4

Roots of U.S. culture in roles of women artists, including traditional gender-based performance forms. The female body in theatre. Includes some women artists of Europe, Africa, and Pacific Rim who have influenced or been influenced by U.S. culture.

THEA 2269 - Arts and Media of the Golden State

Units: 4

The role of creativity in California, the mass-media cultural center of the world, including the stage, screen, recording industry, media, Silicon Valley, and gaming. Introduction to arts and media forms with an emphasis on the roles of delivery and content in developing a personal understanding and appreciation for arts and culture. Requires attendance at on- and off- campus arts and cultural events. **Credit**

Restrictions: Not open to students with credit for MUS 2269.

THEA 2310 - Oral Interpretation of Literature

Units: 4

The artistic process of studying literature through performance. The critical analysis of texts and guided practice in the effective use of voice and body to communicate poetry, prose, and dramatic texts.

THEA 2429 - Fundamental Backstage Technology: Practical Drafting and Model Building

Units: 1

Basic techniques of production for performance situations. Lights course includes stage and TV. Effects course includes pyro, fog, and releases. Open to non-majors. **Repeatability:** May be repeated once with consent of department, for a maximum of 2 units. Only 1 unit may be applied to the Theatre Arts major.

THEA 3000 - Theory of Theatre Performance

Units: 4

A series of theatre activities to demonstrate the nature and execution of theatre performance. Combines improvisation, physicalization of subtext, creative dramatic techniques, and explorations of collaborative performance.

THEA 3050 - Teleplay Acting and Production Workshop

Units: 4

Producing original television movie for cable broadcast. Primarily advanced camera acting techniques, includes some studio operation. Some roles may be assigned during previous quarter to students in THEA 3052. **Repeatability:** May be repeated once for credit.

THEA 3058 - Intermediate Acting: Voice and Movement Techniques

Units: 3

For intermediate and advanced students. Incorporating body and voice into the art of stage acting. Emphasis on creating a powerful and unified vocal and physical presence on stage. Focus on accessing classical texts. Satisfies GE Area: F - Performing Arts and Activities. **Prerequisites:** *THEA 2031, THEA 2032, one previous acting class, or consent of the instructor.* **Repeatability:** Repeatable for a maximum of 6 units.

THEA 3061 - Period Acting

Units: 2

Stylized acting technique applicable to works from selected periods and locales. Emphasis on Western, but includes content from at least one non-Western genre. Consult instructor about specific content. **Prerequisites:** *Any lower-division acting course.* **Repeatability:** May be repeated once for credit, for a maximum of 4 units. A maximum of 4 units are applicable to the major.

THEA 3070 - Leadership in Cultural Production

Units: 2

Practical production planning for theatre and dance shows that focus on specific cultural groups. Staffing, resources, and scripting. Course does not meet a department Production and Performance requirement. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units.

THEA 3071 - Creating a Cultural Production

Units: 2

Practical playwriting for shows that focus on specific cultural groups. Course does not meet a department Production and Performance requirement. **Repeatability:** May be repeated two times for credit, for a maximum of 6 units.

THEA 3072 - Cultural Groups in Performance

Units: 4

Production, rehearsal, and performance of a show that focuses on a specific cultural group. Attend first meeting or call department for cultural theme. Only 4 units credit from 2072 or 3072 is applicable to the Theatre Arts major. **Repeatability:** THEA 2072 and 3072 may be repeated for credit, for a combined maximum of 16 units.

THEA 3073 - Solo Performance: Research Methods

Units: 3

Research methods for enhancing solo plays that are based on personal experiences. Using science, social science, and humanities scholarship to make a convincing case for the lessons in your play. Course does not meet a department Production and Performance requirement.

THEA 3074 - Solo Performance: Talk Story Techniques

Units: 3

Techniques for making a play from primary sources and interviews. Writing and performance techniques that maximize impact for your audience. Course does not meet a department Production and Performance requirement.

THEA 3075 - Solo Performance: Writing about Political and Social Issues

Units: 3

Techniques for making a play based on political and social issues. Writing and performance techniques that maximize impact for your audience. Course does not meet a department Production and Performance requirement.

THEA 3078 - Solo Performance: Production

Units: 4

Production, rehearsal, and performance of a touring performance or show that focuses on plays developed in the Solo Performance series. **Repeatability:** May be repeated once for credit, for a maximum of 8 units. Only 4 units credit from THEA 2078 or 3078 may be applied to meet a department Production and Performance requirement.

THEA 3201 - Classical Greek and Roman Drama

Units: 4

The historic development of early classical drama from the Greek period through the Roman, including the study of representative plays, theatre architecture, and production. Individual research on selected topics.

THEA 3202 - European Medieval and Renaissance Drama

Units: 4

The historic development of European drama from the Medieval period through the Italian Renaissance, Elizabethan period, and 17th Century, including the study of representative plays, theatre architecture, and production. Individual research on selected topics.

THEA 3203 - Modern European Drama

Units: 4

The historic development of European drama from 1800 to the present, including study of representative plays, physical aspects of the theatre, and production practices. Individual research on selected topics.

THEA 3207 - Modern American Theatre

Units: 4

Study of representative American playwrights and their theatre from 1920 to the present. Individual research on selected topics.

THEA 3208 - Postmodern Theatre

Units: 4

Development of postmodern theatre with its emphasis on the mixing of different styles and periods, its interspersing of multiple meanings in a text performance, and its self-consciousness about performance itself. Individual research on selected topics.

THEA 3209 - Sex, Love, and Women on Stage and in Film

Units: 4

Theatre and film as art forms shaping and reflecting culture and values, especially through images of sex, love, and women at different periods in history. Written critique of scripts and/or performances.

THEA 3217 - Theatre of Horror

Units: 4

American Horror and Science Fiction with roots in French Grand Guignol (gory effects) and German Expressionism. Landmarks that advanced the forms on stage and film. How Cold War fears and emerging technology spawned iconic films leading back to contemporary theatre. **Credit Restrictions:** Not for credit in Theatre major or minor.

THEA 3220 - The History of Black Theatre

Units: 4

Influence of twenty-five centuries of African Diaspora on theatre of Europe and North America. Black influence on playwriting, movies and television; Ancient Greek, Medieval, and Shakespearean performance styles; Minstrel theatre; the Harlem Renaissance; and the Black Arts Movement.

THEA 3225 - Theatre Today

Units: 4

Methods for developing a critical viewpoint on theatrical production through observation and analysis of production elements. Includes historical perspectives. Attendance at a variety of theatre events is required. May be used as major elective by advisement only.

THEA 3230 - Shakespeare on Film

Units: 4

Selected plays of Shakespeare shown on film in class. Discussion of literature, interpretations, techniques and concepts of plays as adapted for film and historic setting. Attendance at one live performance may be required for comparative purposes.

THEA 3253 - Theatre Through the Ages

Units: 4

Historical development of classical drama of a specific period, usually either Greek/Roman or Medieval/Renaissance/Shakespeare; the evolving performance space and production technique; representative literature and its influence on world theatre; research on selected topics.

THEA 3254 - Scenery, Lights, and Sound Concepts

Units: 4

Techniques and principles of sets, lighting, and sound for the performing arts. Emphasizes design basics, tools, construction methods, reading plans, hanging and focusing lights, sound PA and production, props, drafting floor plans, and practical projects.

THEA 3255 - Costumes and Makeup Concepts

Units: 4

Techniques and principles of costumes and makeup for the performing arts. Emphasizes design basics, clothing construction, research methods, rendering techniques, makeup theory, and practical projects.

THEA 3256 - Directing: Text to Stage

Units: 3

Transformation of text to stage images. Signs and symbols of production elements. Scrutinize arts and myth, experiment in deconstruction, collage, and mise en scene. Basic directing.

THEA 3257 - Design for Stage

Units: 3

Aesthetics and practice of scenography, lighting, and costume in the performing arts. Techniques of drawing, painting, model building, research, and light plots. **Prerequisites:** *Consent of instructor.*

THEA 3310 - Interpretation of Women's and Ethnic Literature

Units: 4

Research, selection, and analysis of literature contributing to U.S. culture by women and ethnic minorities. Rehearsal and performance as Readers' Theatre.

THEA 3311 - Filipino Theatre

Units: 4

A beginning to intermediate practicum in theatre of the Philippines. Literature, acting, and theatrical aspects; includes a performance. **Repeatability:** May be repeated once for credit, for a maximum of 8 units.

THEA 3326 - Ethnic Women Playwrights and Performers

Units: 4

The contributions of ethnic women to contemporary American theatre; the playwright as agent for broader social change through revelation of hidden prejudice and privilege. Field trips may be required.

THEA 3487 - Voice for Shakespearean and Period Theatre

Units: 2

Vocal techniques required for speaking in Shakespearean and other period plays.

THEA 3610 - Interpretation of Children's Literature and Story Telling

Units: 4

Techniques of story telling; selection and practice in reading poetry and prose for children. Suggested for elementary teachers and theatre majors.

THEA 3650 - Dramatic Activities for Children

Units: 4

Creative dramatics as a tool for building and developing the creative capacities of children. Includes theatre games, improvisation, puppetry, mask making, and other drama activities.

THEA 3660 - Children's Theatre Performance

Units: 4

Theory and techniques of producing theatre for children, including preparation and rehearsal for annual production. **Repeatability:** May be repeated two times for credit, for a maximum of 12 units. Majors may substitute 8 units of THEA 3660 for THEA 3181.

THEA 3898 - Cooperative Education

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities. **Prerequisites:** *At least a 2.0 GPA; departmental approval of activity.* **Repeatability:** May be repeated, for a maximum of 8 units. Only 4 units may be applied to the Theatre Arts major. Only 4 units may be applied to the Theatre minor.

THEA 3999 - Issues in Theatre

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in theatre. **Repeatability:** May be repeated for credit when content varies, for a maximum of 8 units.

THEA 4151 - Senior Festival Preproduction

Units: 3

Preparation for senior culmination performing arts project. May substitute full-time internship in professional environment. Open to non-major performers and technicians with some experience.

Prerequisites: *Consent of instructor.* **Repeatability:** May be repeated once for credit, for a maximum of 6 units. Applying repeat units to major requires Chair exception.

THEA 4152 - Senior Festival Performance

Units: 3

Performance of senior culmination performing arts project. May substitute full-time internship in professional environment. Open to non-major performers and technicians with some experience.

Prerequisites: *Consent of instructor.* **Repeatability:** May be repeated once for credit, for a maximum of 6 units. Applying repeat units to major requires Chair exception.

THEA 4155 - Career Management Issues in Theatre Arts

Units: 4

How artists, in their careers, relate to management, industry, government, and society in general. Career management and arts administration topics. Commercial and non-profit business structures and methods.

THEA 4375 - Ethnic and Immigrant Theatre in the United States

Units: 4

How ethnic groups have used theatre as a secular ritual, a means of self-expression, and as a search for identity. Most attention to the theatre of African, Asian, and Latin Americans; Yiddish and Italian immigrants also covered. Particular emphasis on local theatre companies, including visits to see their productions.

THEA 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Women's Studies

WOST 1001 - Perspectives on Women

Units: 4

The observed similarities and differences in the behavior of women and men as seen from the perspective of art, history, literature, philosophy, biology, and psychology. How these differences came about and what the future may hold.

WOST 1002 - Women in Contemporary Society

Units: 4

Women's work, family roles, political behavior, and legal status today. Controversial issues raised by the women's movement explored from the perspective of different racial/ethnic groups and different political/economic/social systems.

WOST 1100 - Introduction to Feminist, Gender, and Sexuality Studies

Units: 4

Focuses on understanding power hierarchies that structure gender and sexuality. Investigates how gender intersects with race, ethnicity, class, sexuality, age, religion, relevant debates, beliefs, practices, and political struggles.

WOST 1200 - Perspectives on Women in the U.S.

Units: 4

Critical inquiry on women's lives and gender roles through a feminist lens. Topics may include theories of gender and sexuality, constructions and practices of femininity, sexual objectification, sexual politics, sexual/social violence, mitigated by race, class, gender, religion, and age.

WOST 1300 - Femininity and Masculinity

Units: 4

Introduction to social construction and cultural representation of femininity and masculinity. Conceptions of masculinity and femininity influenced by race, class, ethnicity, sexuality and age. Explores connection between biological sex, notions of masculinity and femininity, and subversive gender performance.

WOST 2100 - Theories of Sexuality

Units: 4

Introduction to theories, empirical scholarship, public policies, and current controversies on the topic of sexuality. Focus on sexual development, lifestyles, and communities with additional emphasis on ethnicity, race, gender, class, and nationality.

WOST 2200 - Roots of Feminisms

Units: 4

Pre-twentieth century texts and historical events providing foundations for the development of contemporary feminist theories and practices. Analysis of writings that legitimated patriarchal/misogynist ideologies in Western worlds, such as Plato, Aristotle, and founders of world religions, from a feminist perspective.

WOST 3030 - Immigrant and Refugee Women

Units: 4

(See ES 3030 for course description.)

WOST 3050 - Feminist Theory

Units: 4

Feminist theories of American women's liberation movement from mid-sixties to present. Gender identity; "nature vs. nurture" theories of female subservience and male domination; pornography; rape; class, race, and gender.

WOST 3110 - Theories of Feminism I

Units: 4

Overview of feminist theories, including issues of representation, agency and subjectivity, capitalism and patriarchy. Covers "first wave" statements to "second wave" feminism, including liberal, radical, separatist, and socialist/materialist forms of feminism. Exposure to self-assumptions, application of analytical skills to one's own life and work.

WOST 3200 - Theories of Feminism II

Units: 4

Continuation of WOST 3110, Theories of Feminism I. Offers perspectives on intersectional feminist theory and contemporary issues in feminist thought from "second wave" feminism to present, including post-structuralism and postmodernism, postcolonialism and third-world feminism, ecofeminism and current feminist theoretical debates. **Prerequisites:** WOST 3110.

WOST 3300 - Women, Law, Policy and Activism in the Contemporary U.S.

Units: 4

Feminist perspective on how U.S. law confers rights, creates obligations, and defines identities which impact social actors differently. Topics may include educational and workplace equity, privacy, family law, domestic violence, LGBT rights, reproductive rights, affirmative action and equal protection laws.

WOST 3400 - Women and Careers

Units: 4

Women's experience in the workforce from a political, sociological and historical perspective. Comparison of structure and practices in the corporate structure to those in sports and the military. Obstacles women face, coping mechanisms and strategies for success.

WOST 3420 - Minority Women in America

Units: 4

Persistence and change in the minority female experience in America. Focus on prominent stereotypes of minority women, patterns of courtship and marriage, employment and career trends, birth control and sexual freedom, and feminism and racial solidarity. **Cross-listed:** ES 3420.

WOST 3440 - Women and Social Constructions of Sexuality

Units: 4

Relationship of modern sexualities and the rise of capitalism, secularism, urbanization, sexology, and sexual identity politics. Sexuality as a complex array of social codes, forces, and institutionalized power relations. Topics may include: objectification and commodification, sexual politics, sexual/social violence and resistance.

WOST 3520 - Mothers, Daughters, and Sons

Units: 4

The relationship between mothers and their daughters and sons from a literary, psychological, and sociological point of view. Discussion of literature, film and art.

WOST 3530 - Women and Their Bodies

Units: 4

An interdisciplinary course focusing on women's experiences of their bodies, especially in the areas of health and sexuality.

WOST 3545 - Women's Health and Health Care

Units: 4

Social, political, and economic perspective on current health status and health needs of women in the United States, especially in the areas of reproduction, genetic testing, and chronic illnesses such as heart disease and cancer.

WOST 3550 - Women, Work, and Family Life

Units: 4

The relationship of work and family, the dilemmas women face and strategies they use to negotiate work/family issue. The impact of economic/historical/sociological factors including gender, race, and class, all influencing work and family life.

WOST 3600 - Women and Work in the U.S.

Units: 4

Patterns of women's labor; focus on debates of definition of "work," occupational sex segregation, patterns of paid and domestic labor, gender inequality, work and family issues; experiences of labor (and labor exploitation) according to race, class, sexuality, ethnicity, immigrant status

WOST 3700 - Comparative Perspectives on Global Feminisms

Units: 4

Women globally in transnational and local contexts; issues of economic and social justice. Including violence against women and children, poverty, economic and international migration, political

fundamentalism, globalization of capitalist economy, sexual and civil rights, immigration and citizenship, and sex trafficking.

WOST 3800 - Women and Consumption

Units: 4

Feminist perspectives used to explore the commodification of women's bodies which support globalized capitalist economies through labor and consumerism. Practices of women's consumption and the consumption of women as critiqued from feminist, Marxist, and global/environmental perspectives.

WOST 3810 - Domestic Discontents in the Contemporary U.S.

Units: 4

Feminist analysis of problems facing contemporary U.S. families including household division of labor and changes in economic and social roles for women; marriage as a political institution. Topics may include occupational segregation, carework, welfare, economics of marriage, divorce, child custody.

WOST 3850 - Research Practices and Methods for Feminist Scholarship

Units: 4

Interdisciplinary feminist research methods. Feminist critique of social science research methods, exposing tension between the production and interpretation of data and the importance of considering power relations in the formation of knowledge; testing various social science research methods.

WOST 3900 - Violence Against Women

Units: 4

Violence in intimate relationships from a feminist perspective. Violence against women and girls as instituting structured gender inequality and as perpetrated by political, social and economic institutions locally, nationally, and internationally.

WOST 3999 - Issues in Women's Studies

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in women's studies.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.

WOST 4130 - Women in Midlife Transition

Units: 4

Examination of development and change in behavior of women in the United States at midlife transition, with emphasis on theory, method, and empirical research. **Prerequisites:** *Upper division standing.*

WOST 4160 - Women and Aging

Units: 4

Examination of development and change in behavior of women as they age in the United States, with emphasis on theory, method, and empirical research. **Prerequisites:** *Upper division standing.*

WOST 4200 - Gender, Sexuality and Popular Culture in the U.S.

Units: 4

Feminist perspective on meaning and construction of masculinity, femininity, sexuality, and stereotypes in both mainstream and sub-cultural popular culture contexts (film, fiction, non-fiction, theater, music, television, journalism, Internet) with particular attention to race, ethnicity, class, sexuality, age, disability, and nationality.

WOST 4300 - Women and Global intersecting Structures of Oppression

Units: 4

Sexism, racism, classism, heterosexism, nationalism, ethnocentrism, ageism, and ideologies intersect to shape systems of oppression with particular attention paid to education, political economies, and media across the globe. Examines how women have worked collectively and individually to resist oppression.

WOST 4500 - Feminist Thought into Action

Units: 4

Relationship between feminist research and community/political activism. State of women's activism today locally, nationally, and globally; social justice for women and girls. Includes identifying goals, contacting media outlets, writing grant proposals, and negotiating ethical issues in feminist praxis.

WOST 4600 - Action Research Seminar I

Units: 4

First quarter of a two-quarter senior thesis seminar. Thesis is an applied research project which synthesizes coursework and two-quarters of fieldwork, includes project's significance, methodology, thorough documentation and relevant conclusions or recommendations. **Prerequisites:** *Senior standing, WOST 4400 and WOST 4500* **Co-requisites:** WOST 4700.

WOST 4700 - Action Fieldwork in Women's Studies I

Units: 4

First quarter of a two-quarter service learning fieldwork placement arranged through instructors. Initial fieldwork data collection for senior thesis; outline plan developed individually between student and faculty sponsor. Analytic journal required. **Prerequisites:** *Senior standing, WOST 4400 and WOST 4500* **Co-requisites:** *WOST 4600.*

WOST 4800 - Action Fieldwork in Women's Studies II

Units: 4

Second quarter of two-quarter service learning fieldwork placement arranged through instructors. Continued research fieldwork data collection for senior thesis on faculty approved student outline plan. Analytic journal required. **Prerequisites:** *Senior standing, WOST 4400, WOST 4500, WOST 4600, and WOST 4700* **Co-requisites:** *WOST 4910.*

WOST 4900 - Independent Study

Units: 1-4

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

WOST 4910 - Action Research Seminar II

Units: 4

Second quarter of two-quarter seminar for senior thesis, an applied research project synthesizing coursework and two-quarters of fieldwork, includes project's significance, methodology, detailed documentation, relevant conclusions or recommendations. **Prerequisites:** *Senior standing, WOST 4400, WOST 4500, WOST 4600, and WOST 4700;* *Co-requisite: WOST 4800.*

Programs of Study by Department

Department of Accounting and Finance

The Department Office is located on the 4th floor of the Valley & Business Technology (VBT) building,
Room 442.

Open Hours: 8:00 am to 5:00 pm Monday through Friday.

Dept. Phone: 510-885-3397

Faculty

Professor Emeritus

Christopher W. K. Lubwama, Ph.D. Simon Fraser University (Canada)

Professors

Micah Frankel, Ph.D. University of Arizona

Ching-Lih Jan, Ph.D. University of California, Berkeley

Nancy R. Mangold (Chair), Ph.D. University of California, Berkeley

Fung-Shine Pan, Ph.D. University of California, Berkeley

Tammie X. Simmons-Mosley, Ph.D. University of Wisconsin-Madison

Associate Professors

Eric Fricke, Ph.D. Pennsylvania State University

Siu-Kuen Scott Fung, D.B.A. Boston University

M. Sinan Goktan, Ph.D. The University of Texas at Dallas

Y. Robert Lin, Ph.D. University of California, Los Angeles

Kim Shima, Ph.D. University of Hawai'i at Manoa

Jing-wen Yang, Ph.D. University of Maryland

John Tan, Ph.D. University of South Florida

Assistant Professors

Brian Du, Ph.D. Rutgers University

Dongliang Lei, Ph.D. Baruch College, The City University of New York

Ying Guo, Ph.D. University of Hawai'i at Manoa

Pei Hui Hsu, Ph.D. University of Oregon

Robert Loveland, Ph.D. University of Georgia

Our Mission Statement reflects that of our College of Business and Economics:

...to provide excellence and innovation in integrating quality teaching and learning, with applied research and relevant experience to a diverse clientele from the San Francisco Bay Area to the Global Community.

We provide an education that will allow students to succeed in a business environment that is characterized by rapid technological advancements; a work force of ethnic, cultural, and gender diversity; demands for continuous improvements in quality and service; demands for continuous individual and organizational learning; and, demands for the understanding and skills needed to practice in global markets.

Our Department strives to maintain a quality program that is responsive to an ever changing environment. The faculty members of our Department combine distinguished academic backgrounds with many years of practical experience in their respective professional areas. Currently, there are 38 faculty members who fill full-time positions augmented by part-time faculty with specialized expertise. These full-time and part-time faculty members are a valuable resource, not just for the University and its students, but also for the surrounding business community.

The Department offers over 100 different courses in accounting, finance, taxation, and real estate courses.

Road Maps	Graduate Program
[Redacted Content]	

Bachelor of Science

Business Administration, Accounting Option, B.S.

Department & Faculty Information

Business Administration (B.S.) 180 units

Program Description

The College of Business and Economics is committed to providing a broad and flexible professional education. The program offers students the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers. Recognizing the importance of ethics in the business community, business ethics is an important component in three of our required core classes.

The Business Administration major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization (option) corresponding to their desired career path. Each option allows students flexibility to customize their program by choosing option elective courses. The program is designed to encourage students to actively participate in shaping their program to fit their individual needs.

The undergraduate and the graduate programs in Business Administration are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Undergraduate Student Success & Service Center

CBE's Undergraduate Student Success & Service Center (USSSC) provides services that support and promote student success. For more information and advising, contact the USSSC in VBT 129, call (510) 885-3323 or email cbe_ssc@csueastbay.edu

Student Learning Outcomes

Students graduating with a B.S. in Business Administration from Cal State East Bay will be able to:

1. Recognize and recall foundation knowledge relevant to business management.
2. Integrate and think critically across functional areas to solve business problems.
3. Understand and apply quantitative methods and tools in evaluating business problems.
4. Apply technology to analyze business problems.
5. Apply effective oral communication skills.
6. Apply effective written communication skills.
7. Apply effective team working skills.
8. Understand ethical issues and derive solutions for ethical problems.

CBE Sample Programs

In order to ensure that prerequisite courses are taken in the proper sequence, contact the CBE Student Service Center at www.csueastbay.edu/cbe/students/usssc. This site provides information, advising, online forms, sample programs and curriculum planning flow charts for each option in the business administration major.

Major Requirements (B.S.) 97-105 units

Expiration of Courses

Upper division major/option requirement courses will expire ten years after completion of the quarter in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

The B.S. degree requires a total of 180 units. The Business Administration major consists of 97-105 units. The Business Administration major requires three sets of courses:

1. (I) lower division core courses with a grade of "C" or better for each course,
2. (II) upper division core courses, and
3. (III) courses to fulfill option requirements.
 - The core major consists of 73-77 units;
 - the Accounting Option consists of 28 units;
 - the Business Economics Option consists of 24 units;
 - the Entrepreneurship Option consists of 24 units;
 - the Finance Option consists of 24 units;
 - the General Management Option consists of 24 units;
 - the Human Resources Management Option consists of 24 units;
 - the Information Technology Management Option consists of 24 units;
 - the Marketing Management Option consists of 24 units;
 - the Operations and Supply Chain Management Option consists of 24 units.
 - GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
 - *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Prerequisite Courses

Students must have completed the prerequisites listed in the **course descriptions** for any course they use to satisfy the following requirements. Two key MATH prerequisites are listed here, their units are not included in the Major's total units. Check all **course descriptions** to be sure all prerequisites are met.

- MATH 1130 - College Algebra *Units: 4*
- MATH 1300 - Trigonometry and Analytic Geometry *Units: 4*
- **Digital Proficiency** can be fulfilled by completing ITM 1270 (offered below) **or** in one of the following ways: 1) Pass the Digital Proficiency test administered quarterly by the Department of Management, College of Business and Economics. Contact CBE Undergraduate Student Success & Service Center for details regarding the test or 2) Receive a total scaled score of 50 or higher on the "Information Systems and Computer Applications" test administered by College Board's College-Level Examination Program (CLEP). Note that the total scaled scores fall between 20 and 80. Your total scaled score must be at least 50, which does not mean 50%. Browse http://www.collegeboard.com/student/testing/clep/ex_isca.html for all details regarding the "Information Systems" test.

Lower Division Core (29-33 units)

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- ACCT 2253 - Introduction to Managerial Accounting *Units: 4*
- ACCT 2701 - Legal Environment of Business *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*

- ITM 1270 - Fundamentals of Information Systems and Applications *Units: 4*
- MATH 1810 - Mathematics for Business and Social Sciences *Units: 4* *Note: students who plan to pursue one of the more quantitative options or a graduate program are encouraged to enroll in MATH 1304 Calculus I, in place of MATH 1810.*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
or STAT 2010 Elements of Statistics for Business and Economics

Upper Division Core (44 units)

All lower division core requirements must be completed prior to enrollment in upper division courses. *Note: Neither ECON 3107 nor MGMT 4670 can be used as an elective for any Business Administration options. Students who choose the Accounting option are strongly encouraged to take ACCT 4911 Accounting Ethics that counts towards the requirement of 4 quarter units of accounting ethics on the Ethics Study for California CPA (Certified Public Accountant) licensure.*

- ECON 3107 - Global Economic Analysis *Units: 4*
or MGMT 4670 *Multinational Business*
- ECON 3551 - Managerial Economics and Business Strategy *Units: 4*
- FIN 3300 - Financial Management *Units: 4*
- ITM 3060 - Information Technology Management *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*
- MGMT 3560 - Business and Professional Ethics *Units: 4*
or cross-listed: PHIL 3560
- MGMT 3614 - Organizational Behavior *Units: 4*
- MGMT 3620 - Operations Management *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*
or ACCT 4911 *Accounting Ethics*
- MGMT 4650 - Seminar in Strategic Business Management *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*

Option Requirements

A Business Administration B.S degree requires that students choose one of the following options. *A student cannot have both an option and a minor in the same area.*

- Business Administration, Accounting Option, B.S.
- Business Administration, Business Economics Option, B.S.
- Business Administration, Entrepreneurship Option, B.S.
- Business Administration, Finance Option, B.S.
- Business Administration, General Management Option, B.S.
- Business Administration, Human Resources Management Option, B.S.
- Business Administration, Information Technology Management (ITM) Option, B.S.
- Business Administration, Marketing Management Option, B.S.
- Business Administration, Operations and Supply Chain Management (OSCM) Option, B.S.

Accounting Option (28 units)

Accounting plays an important role in business decision-making. The function of accounting is to identify, measure, and communicate relevant information for decision-making purposes. There is a high demand for professional accountants. The program is rigorous, challenging, interesting, and rewarding. The program will prepare students for accounting career opportunities in private, public, and non-profit sectors, and will aid in the preparation for professional examinations.

Required Option Courses:

Five (5) courses (20 units) required:

- ACCT 3211 - Intermediate Financial Accounting I *Units: 4*
- ACCT 3212 - Intermediate Financial Accounting II *Units: 4*
- ACCT 3213 - Intermediate Financial Accounting III *Units: 4*
- ACCT 3220 - Tax Accounting: Fundamentals and Individuals *Units: 4*
- ACCT 4250 - Auditing I *Units: 4*

Option Elective Courses:

- Choice of two course (8 units) of upper division (3000-4000) level Accounting courses beyond those listed as required (excluding ACCT 3228, 3898, 4227, 4900).
Note: The following course may be used as a substitute for either ACCT 2701 or MGMT 4500 in the upper division core (if substituted, ACCT 4223 cannot be used as accounting option elective).
- ACCT 4223 - Business Law for Accountants *Units: 4*

CPA Exam

Students who need 36 units to qualify and prepare for the CPA exam are recommended to take the following courses as electives:

- ACCT 3170 - Accounting Information Systems I *Units: 4*
- ACCT 3230 - Cost Management *Units: 4*
- ACCT 3280 - Accounting for Governmental and Nonprofit Entities *Units: 4*
- ACCT 4211 - Advanced Financial Accounting *Units: 4*
- ACCT 4220 - Tax Accounting: Corporate Tax *Units: 4*

Internal Audit Career

Students interested in a career in internal audit are recommended to take the following courses as electives:

- ACCT 4252 - Information Technology Audit *Units: 4*
- ACCT 4253 - Internal Auditing *Units: 4*

Taxation Career

Students interested in a career in taxation are recommended to take the following courses as electives:

- ACCT 4220 - Tax Accounting: Corporate Tax *Units: 4*
- ACCT 4221 - Tax Accounting: Partnerships, Gifts, Estates, Trusts *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Business Administration, Finance Option, B.S.

Department & Faculty Information

Business Administration (B.S.) 180 units

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 - the Marketing Management Option consists of 24 units;
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- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*
- ITM 1270 - Fundamentals of Information Systems and Applications *Units: 4*
- MATH 1810 - Mathematics for Business and Social Sciences *Units: 4* *Note: students who plan to pursue one of the more quantitative options or a graduate program are encouraged to enroll in MATH 1304 Calculus I, in place of MATH 1810.*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
or STAT 2010 Elements of Statistics for Business and Economics

Upper Division Core (44 units)

All lower division core requirements must be completed prior to enrollment in upper division courses. *Note: Neither ECON 3107 nor MGMT 4670 can be used as an elective for any Business Administration options. Students who choose the Accounting option are strongly encouraged to take ACCT 4911 Accounting Ethics that counts towards the requirement of 4 quarter units of accounting ethics on the Ethics Study for California CPA (Certified Public Accountant) licensure.*

- ECON 3107 - Global Economic Analysis *Units: 4*
or MGMT 4670 Multinational Business
- ECON 3551 - Managerial Economics and Business Strategy *Units: 4*
- FIN 3300 - Financial Management *Units: 4*
- ITM 3060 - Information Technology Management *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*
- MGMT 3560 - Business and Professional Ethics *Units: 4*

or cross-listed: PHIL 3560

- MGMT 3614 - Organizational Behavior *Units: 4*
- MGMT 3620 - Operations Management *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*
or ACCT 4911 Accounting Ethics
- MGMT 4650 - Seminar in Strategic Business Management *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*

Option Requirements

A Business Administration B.S degree requires that students choose one of the following options. A student cannot have both an option and a minor in the same area.

- Business Administration, Accounting Option, B.S.
- Business Administration, Business Economics Option, B.S.
- Business Administration, Entrepreneurship Option, B.S.
- Business Administration, Finance Option, B.S.
- Business Administration, General Management Option, B.S.
- Business Administration, Human Resources Management Option, B.S.
- Business Administration, Information Technology Management (ITM) Option, B.S.
- Business Administration, Marketing Management Option, B.S.
- Business Administration, Operations and Supply Chain Management (OSCM) Option, B.S.

Finance Option (24 units)

The Finance option is designed to prepare students for careers in the financial management of corporations, commercial, retail and investment banking, asset management, and other areas in finance. The option develops decision-making skills by first providing a sound theoretical foundation of knowledge. Through hands-on coursework in areas such as financial analysis, investments, derivatives, international finance, risk management, financial modeling, and venture financing, students learn the critical thinking, problem solving, ethics, and effective communication skills valued most by employers.

Required Option Courses:

Two courses (8 units) required:

- FIN 4300 - Corporate Finance *Units: 4*
- FIN 4310 - Investment Analysis *Units: 4*

Option Elective Courses:

Choice of four courses (16 units) from the following list of upper division Finance courses (or any 4300 level Finance course not listed below). **Note:** students must fulfill all prerequisite units in addition to the total major units.

- FIN 4305 - Entrepreneurial Finance *Units: 4*
- FIN 4315 - Derivatives Markets *Units: 4*
- FIN 4320 - Problems in Corporate Finance *Units: 4*

- FIN 4328 - Risk Management in Financial Institutions *Units: 4*
- FIN 4330 - Financial Modeling *Units: 4*
- FIN 4370 - Seminar in Financial Theory *Units: 4*
- FIN 4375 - International Business Finance *Units: 4*

CFA Exam

Students interested in preparing for the CFA level I exam are recommended to take the following courses as electives:

- FIN 4315 - Derivatives Markets *Units: 4*
- FIN 4328 - Risk Management in Financial Institutions *Units: 4*

Careers in Financial Management, Financial Analysis, or Corporate Finance

Students interested in a career in financial management or financial analyses are recommended to take the following courses as electives:

- FIN 4305 - Entrepreneurial Finance *Units: 4*
- FIN 4315 - Derivatives Markets *Units: 4*
- FIN 4320 - Problems in Corporate Finance *Units: 4*
- FIN 4328 - Risk Management in Financial Institutions *Units: 4*
- FIN 4330 - Financial Modeling *Units: 4*
- FIN 4375 - International Business Finance *Units: 4*

Careers in Financial Institutions, Asset Management, and Risk Management

Students interested in a career in financial institutions, asset or risk management are recommended to take the following courses as electives:

- FIN 4305 - Entrepreneurial Finance *Units: 4*
- FIN 4315 - Derivatives Markets *Units: 4*
- FIN 4328 - Risk Management in Financial Institutions *Units: 4*
- FIN 4330 - Financial Modeling *Units: 4*
- FIN 4375 - International Business Finance *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Business Administration

Business Administration, Finance Option, M.B.A.

Department & Faculty Information

CBE Graduate Programs, M.A., M.B.A., M.S.

Description of Programs

The mission of the College of Business and Economics is to prepare students to make ethical choices and succeed in a dynamic business environment shaped by the challenges of a competitive global economy, emerging technologies, and diverse stakeholders. All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees (click on each link for further information):

- **Master of Arts in Economics, M.A.**
- **Master of Business Administration, M.B.A.** (to complete the MBA degree, students select one of the individual MBA options listed under Core Coursework below)
- **Master of Science in Accountancy, M.S.**
- **Master of Science in Business Analytics, M.S.**

Transfer of Courses

Upper division prerequisite and foundation and graduate courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Graduate Courses

Restricted to "Classified" and "Conditionally Classified" Graduate Students.

Classified Graduate Standing

A student who has been admitted to the M.A. program by meeting the requirements established in item 1 above; has fulfilled all prerequisite coursework and other requirements such as the University Writing Skills Requirement (UWSR); and has a strong background in economics may begin as a "Classified Graduate" student. Students admitted into the program but lacking such background will be designated as "Conditionally Classified Graduate" students until deficiencies are made up and they are recommended for "Classified Graduate" standing by the department. The student must have satisfied the University Writing Skills Requirement (UWSR) to become a "Classified Graduate" student. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Conditionally Classified Graduate Standing

A student who has been admitted to a graduate degree program but who has not satisfied all prerequisite coursework or other requirements such as the University Writing Skills Requirement is a "Conditionally Classified Graduate" student. A student may be admitted to a graduate degree program as a "Conditionally Classified" graduate student upon:

1. submission of a written application, with required supporting documents, to the Admissions Office declaring an intent to pursue the M.A. degree in Economics;
2. acceptance by the department; and
3. completion of other appropriate requirements as specified in the Admission/Graduate chapter in this catalog.

Course prerequisites are enforced but may be waived per approval of the director of Graduate Programs.

Business Administration (M.B.A.) Program Information

Graduate Faculty Advisors for M.B.A. Options

- M.B.A./Entrepreneurship: Brian McKenzie
- M.B.A./Finance: Fung-Shine Pan
- M.B.A./Human Resources and Organizational Behavior: Asha Rao
- M.B.A./Information Technology Management: Hongwei Du
- M.B.A./Marketing Management: Lan Wu
- M.B.A./Operations and Supply Chain Management: Zinovy Radovilsky
- M.B.A. Strategy and International Business: Gregory Theyel, Yi Jiang
- M.B.A./Global Innovators: Yi Jiang, Glen Taylor

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of

- past academic performance as reflected in undergraduate grade point average and subsequent coursework; and
- results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For the MBA with Options last admitted students profile, please visit: www20.csueastbay.edu/cbe/mba-options/Student-Profile.html
- GRE score, if provided, is accepted in place of GMAT. GMAT may be waived for applicants with five years or more work experience. Applicants' eligibility for a GMAT waiver is discussed during their personal interview, in which their professional achievements and academic background are addressed.

Proficiencies

All Conditionally Classified M.B.A. students must fulfill the University Writing Skills Requirement (UWSR) and M.B.A. program proficiencies. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the

Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office, Library, Room LI 3165A, phone 510-885-3661. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first quarter in the program.

Students are also expected to have completed M.B.A. proficiency requirements in introductory mathematics and statistics with a grade of "C" or better and within 7 years of starting in the program. To satisfy the mathematics proficiency, students must complete the equivalent coursework in intermediate algebra, MATH 1130 or an equivalent course. The statistics requirement may be met by a course in statistics that is equivalent to STAT 1000 or STAT 2010.

Requirements for Graduation

To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog) and have completed 52-64 quarter units meeting the following criteria:

- All have a course grade of "C" or better.
- Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
- Have no more than 16 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Postbaccalaureate" status.
- All units earned within the five years immediately preceding the completion of the requirements for the degree.
- Have completed a satisfactory program of study, defined below.

M.B.A. Coursework 52-64 units

Fundamental Coursework (0-12 units)

Fundamental coursework must be completed before enrolling in any M.B.A. core course, except MGMT 6120 and MKTG 6120. Fundamental coursework can be waived by passing an exam on a course by course basis. Exams are offered once per quarter. There is a fee of \$25 for each exam. Please see the M.B.A. website <http://www.mba.csueastbay.edu> or contact the CBE Graduate Programs Office (VBT 430, phone 510.885.2419) for dates and registration information.

- ACCT 6015 - Financial Accounting *Units: 4*
- ITM 6015 - Information Systems Development and Management *Units: 4*
- MGMT 6015 - Data Analysis and Decision Modeling for Managers *Units: 4*

Core Coursework

Nine courses (36 units) required from the following: **Note:** MGMT 6120 and MKTG 6120 should be taken before other core courses. These two courses only require proficiencies as prerequisites. All remaining core courses require both proficiencies and fundamental coursework.

- MGMT 6120 - Globalization, Innovation and Sustainability *Units: 4*
- MKTG 6120 - Managerial Communication *Units: 4*

- ACCT 6215 - Managerial Accounting *Units: 4*
- ECON 6215 - Economics for Managers in a Global Economy *Units: 4*
- FIN 6215 - Corporate Financial Management *Units: 4*
- MGMT 6215 - Business, Government and Society *Units: 4*
- MGMT 6220 - Operations and Supply Chain Management *Units: 4*
- MGMT 6225 - Executive Leadership *Units: 4*
- MKTG 6215 - Marketing Management *Units: 4*

Core Capstone

Choice of two courses (4 units) from the following:

- ENTR 6800 - Entrepreneurship Practicum *Units: 4*
- MGMT 6800 - Seminar in Strategic Management *Units: 4*

Option Requirements:

A Master of Business Administration (M.B.A.) degree can be completed by choosing 12 units of electives or by choosing an option. The individual links will provide further information below.

- Business Administration, M.B.A.
- Business Administration, Entrepreneurship Option, M.B.A.
- Business Administration, Finance Option, M.B.A.
- Business Administration, Global Innovators Option, M.B.A.
- Business Administration, Human Resources and Organizational Behavior Option, M.B.A.
- Business Administration, Information Technology Management Option, M.B.A.
- Business Administration, Marketing Management Option, M.B.A.
- Business Administration, Operations and Supply Chain Management Option, M.B.A.
- Business Administration, Strategy and International Business Option, M.B.A.

Finance Option (12 Units)

Select Three courses from the following:

- FIN 6305 - New Venture Financing *Units: 4*
- FIN 6310 - Seminar in Security Analysis and Portfolio Management *Units: 4*
- FIN 6315 - Seminar in Options and Futures *Units: 4*
- FIN 6320 - Studies in Financial Markets *Units: 4*
- FIN 6325 - Financial Management of Banking Institutions *Units: 4*
- FIN 6375 - International Financial Management *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate and Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation which are described throughout this catalog. These requirements include the 32-unit residence requirement, the five-year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website or call 510.885.3661.

Master of Science

Accountancy, M.S.

Department & Faculty Information

CBE Graduate Programs, M.A., M.B.A., M.S.

Description of Programs

The mission of the College of Business and Economics is to prepare students to make ethical choices and succeed in a dynamic business environment shaped by the challenges of a competitive global economy, emerging technologies, and diverse stakeholders. All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees (click on each link for further information):

- **Master of Arts in Economics, M.A.**
- **Master of Business Administration, M.B.A.** (to complete the MBA degree, students select one of the individual MBA options listed under Core Coursework below)
- **Master of Science in Accountancy, M.S.**
- **Master of Science in Business Analytics, M.S.**

Transfer of Courses

Upper division prerequisite and foundation and graduate courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Graduate Courses

Restricted to "Classified" and "Conditionally Classified" Graduate Students.

Classified Graduate Standing

A student who has been admitted to the M.A. program by meeting the requirements established in item 1 above; has fulfilled all prerequisite coursework and other requirements such as the University Writing Skills Requirement (UWSR); and has a strong background in economics may begin as a "Classified Graduate" student. Students admitted into the program but lacking such background will be designated as "Conditionally Classified Graduate" students until deficiencies are made up and they are recommended for "Classified Graduate" standing by the department. The student must have satisfied the University Writing Skills Requirement (UWSR) to become a "Classified Graduate" student. For information on

meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Conditionally Classified Graduate Standing

A student who has been admitted to a graduate degree program but who has not satisfied all prerequisite coursework or other requirements such as the University Writing Skills Requirement is a "Conditionally Classified Graduate" student. A student may be admitted to a graduate degree program as a "Conditionally Classified" graduate student upon:

1. submission of a written application, with required supporting documents, to the Admissions Office declaring an intent to pursue the M.A. degree in Economics;
2. acceptance by the department; and
3. completion of other appropriate requirements as specified in the Admission/Graduate chapter in this catalog.

Course prerequisites are enforced but may be waived per approval of the director of Graduate Programs.

Requirements for the M.S. in Accountancy (45-61 units)

Program Coordinator

Nancy Mangold, Chair and Professor, Department of Accounting and Finance

University Extension:

Balvinder Kumar, Special Sessions Coordinator

Mission Statement

The mission of the Master of Science in Accountancy program is to provide students with a high quality accounting program that prepares students to have the required education qualifications for entry into the accounting profession. Through our program, students will learn to make ethical choices and will contribute to the vitality of the East Bay, the state and global communities. The M.S. in Accountancy Program is a cohort-based, one year (4-quarters) graduate program. Graduates of the program will satisfy the accounting education requirements for the CPA examination and for the 150 hour California CPA licensure requirement.

Student Learning Outcomes:

Students graduating with a Master of Science in Accountancy will be able to:

1. Demonstrate the required knowledge of U.S. and international financial reporting standards, government and not-for-profit accounting standards, U.S. and international auditing standards, corporate tax, and ethics and regulations.
2. Think critically and apply quantitative reasoning skills to analyze financial reports, perform risk analysis, construct business valuation models using spreadsheets and statistical analyses, and assess the internal control functions and perform attestation tasks.
3. Demonstrate knowledge of up-to-date government laws and regulations and the code of conduct and ethics for professional accountants, detect and analyze situations that might be unethical or a violation of

professional standards, and will demonstrate a solid defense of a reasonable solution to an ethical issue and communicate a concise and articulate recommendation.

4. Apply written communication skills to produce professional accounting reports and demonstrate the ability to prepare and deliver a well-organized, informative and persuasive oral presentation within a professional context.
5. Apply professional collaboration skills in working with individuals and in groups.

Career Opportunities

Graduates of the M.S. in Accountancy program can pursue a wide range of professional accounting careers in public accounting, industry, government and not-for-profit organizations.

Admission

The Master of Science in Accountancy program is a cohort based, one year (4 quarters) program. Students with a baccalaureate degree in any subject from an accredited college or university may apply. Work experience is desirable, but not required. To be considered for admission to the M.S. in Accountancy program, each applicant is evaluated on the basis of:

1. Past academic performance as reflected in undergraduate grade point average and subsequent coursework;
2. Results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Equivalent GRE scores or have passed the U.S. C.P.A. Examination are considered in place of GMAT;
3. For international students: demonstrated proof of English proficiency in one of the following ways:
 - a. An official transcript showing graduation with a bachelor's degree from a U.S. college or university, or an international college or university where English is the principal language of instruction, or an official letter from the college or university certifying that English was the language of instruction.
 - b. A TOEFL (Test of English as a Foreign Language) score of 550 (213 computer-based or 79 Internet-based) or above.
 - c. An overall test score from IELTS (International English Language Testing System) exam of 6.5 or above for graduate students.

Proficiencies

All M.S. in Accountancy program students must fulfill the University Writing Skills Requirement (UWSR). The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST), or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office, Library, Room LI 3165A, phone 510-885-3661. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first quarter in the program.

Requirements for Graduation

To be eligible for the M.S. in Accountancy, a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog) and have completed 45 quarter units meeting the following criteria:

- Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
- All have a course grade of "C" or better.
- All units earned within the five years immediately preceding the completion of the requirements for the degree.
- Have completed a satisfactory program of study, defined below.

Recommended Courses:

The following courses are recommended for students with a non-accounting undergraduate degree:

- ACCT 6611 - Financial Reporting and IFRS I *Units: 4*
- ACCT 6612 - Financial Reporting and IFRS II *Units: 4*
- ACCT 6613 - Financial Reporting and IFRS III *Units: 4*
- ACCT 6620 - Advanced Topics in Financial Accounting *Units: 4*
- ACCT 6670 - Business Law and Regulations *Units: 4*

Foundation Courses (0-16 units)

In order to be considered for "Classified Graduate" standing in the Master of Science in Accountancy program, a student must satisfy the following undergraduate courses or equivalent:

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- ACCT 2253 - Introduction to Managerial Accounting *Units: 4*
- ACCT 3170 - Accounting Information Systems I *Units: 4*
- ACCT 3220 - Tax Accounting: Fundamentals and Individuals *Units: 4*

Foundation courses can be satisfied by courses taken in an undergraduate program with a grade "B-" or better within the last five years.

Core Courses (24 units)

Core courses are required of all students enrolled in the M.S. in Accountancy program.

- ACCT 6202 - Corporate Tax *Units: 4*
- ACCT 6560 - Financial Statement Analysis and Business Valuation *Units: 4*
- ACCT 6630 - Governmental and Not-for-profit Accounting *Units: 4*
- ACCT 6640 - Auditing Theory and Practice I *Units: 4*
- ACCT 6650 - Auditing Theory and Practice II *Units: 4*
- ACCT 6660 - Accountants' Ethics and Professional Responsibilities *Units: 4*

Elective Courses (20 Units by advisement)

- Any 6000 level graduate accounting courses not taken as the core courses.
- FIN 6310 - Seminar in Security Analysis and Portfolio Management *Units: 4*
- FIN 6315 - Seminar in Options and Futures *Units: 4*
- FIN 6325 - Financial Management of Banking Institutions *Units: 4*

- MGMT 6225 - Executive Leadership *Units: 4*
- MKTG 6120 - Managerial Communication *Units: 4*

Capstone Project (1 unit)

- ACCT 6899 - Project *Units: 1*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate and Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation which are described throughout this catalog. These requirements include the 32-unit residence requirement, the five-year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website or call 510.885.3661.

Minor

Real Estate Minor

Department & Faculty Information

Real Estate Minor

The College of Business & Economics aims to help students to better fulfill their educational and career goals for a Real Estate Broker license. Of the 23 California State University (CSU) campuses, only 7 offer Real Estate programs. CSUEB is the only Bay Area CSU campus which offers a Real Estate program. To help meet the needs of employers in the Bay Area, the minor will educate students on real estate development, finance and investment, portfolio allocation and asset management, and licensing.

Curriculum

Beginning in Fall 2016, the minor in Real Estate will be offered by the Department of Accounting & Finance in the College of Business & Economics.

Courses recommended in preparation for the Real Estate curriculum:

- ACCT 2701 Legal Environment of Business
- FIN 3300 Financial Management

Required Courses (24 units)

Five courses:

- FIN 3400 - Principles of Real Estate *Units: 4*
- FIN 3410 - Real Estate Practice *Units: 4*
- FIN 3420 - Real Estate Law *Units: 4*
- FIN 4410 - Real Estate Finance and Investment *Units: 4*
- FIN 4415 - Real Estate Valuation *Units: 4*

One course:

Choice of course. Only one of the following courses will be offered in an academic year.

- ECON 3500 - Urban Economics *Units: 4*
- FIN 4420 - Sustainable Real Estate Development *Units: 4*
- FIN 4470 - Real Estate Markets and Housing Policies *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Anthropology, Geography and Environmental Studies

Department Office location on the 2nd Floor of the Robinson Hall building, Room 220

Open Hours: 8:00 a.m. to 5:00 p.m., Monday through Friday

Dept. Phone: (510) 885-3168

Professors Emeriti

Laurie J. Price, Ph.D. University of North Carolina, Chapel Hill

Scott Stine, Ph.D. University of California, Berkeley

Professors

Karina Garbesi, Ph.D. University of California, Berkeley

David Larson (Chair), Ph.D. University of California, Berkeley

Michael Lee, Ph.D. London School of Economics (England)

Gary Li, Ph.D. State University of New York at Buffalo

Associate Professors

William Henry Gilbert, Ph.D. University of California, Berkeley

Andrew Wong, Ph.D. Stanford University

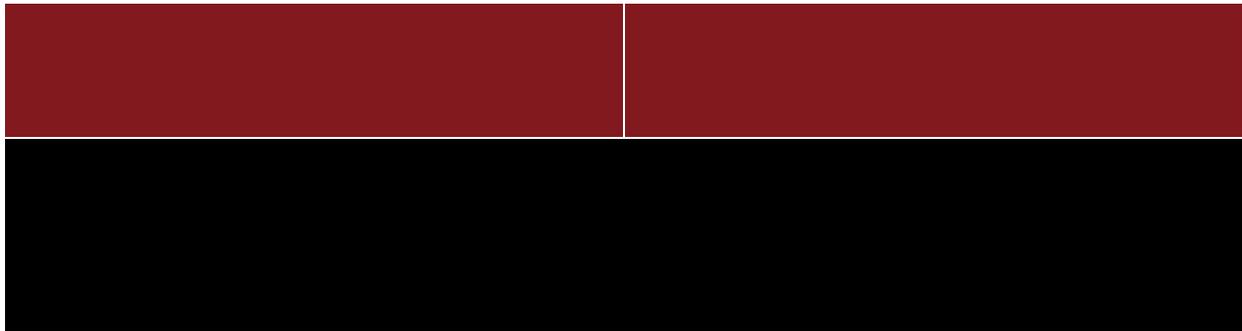
David Woo, Ph.D. University of California, Santa Barbara

Assistant Professor

Albert Gonzalez, Ph.D. Southern Methodist University

Faculty

Graduate Coordinator: Andrew Wong



Bachelor of Arts

Anthropology, Archaeology/Biological Anthropology Option, B.A.

Department & Faculty Information

Anthropology, (B.A.) 180 units

Program Description

Anthropology is the multifaceted study of humanity from an evolutionary, historical, and global perspective. Students in anthropology learn about their own culture as well as those of other peoples as they are shaped by biological evolution, ecological constraints, political history, and sociological conditioning. The Department of Anthropology offers ethnographic, theoretical and methodological courses in five sub-disciplines: biological anthropology, prehistory and archaeology, anthropological linguistics, sociocultural anthropology, and applied anthropology. Regional courses on major populations

of the world, especially the heritage cultures of North and South America, and Asia, form an important component of the curriculum. The B.A. degree program bridges the sciences, social sciences, and humanities, preparing students for multidimensional careers. Fundamentally, the study of anthropology cultivates an appreciation of what all humans share, as well as how humans differ across time and space.

At the undergraduate level, students in the B.A. degree program may choose to focus on special interests in two combined sub-disciplines:

- Archaeology and Biological Anthropology emphasize the study of human biology, variation, evolution, and the reconstruction of past ways of life and cultural systems from material remains.
- Socio-Cultural and Applied Anthropology emphasize the study of social and cultural systems of more recent historical and contemporary populations, and the application of anthropological insights into present-day problems.

Other combinations are possible upon consultation with, and approval by, the faculty.

Student Learning Outcomes

Students graduating with a B.A. in Anthropology from Cal State East Bay will be able to:

1. identify, summarize and sequence the basic schools of anthropological thought in all four academic sub-fields of the discipline;
2. apply basic qualitative and quantitative sociocultural (ethnographic), archaeological, or osteological research methods and skills;
3. describe, compare and relate human cultures across different regions of the globe;
4. examine human diversity holistically and scientifically, discriminating among and analyzing conceptions and misconceptions of ethnicity, "race," and human biological variation;
5. identify pragmatic uses of anthropological methods and perspectives in approaching real-world solutions, and identify instances of and opportunities for applications of anthropological tools and ideas in employment and community development, both locally and globally, and
6. communicate information clearly in written and oral forms.

Career Opportunities

- Anthropologist
- Archaeologist
- Artifacts Conservator
- Curator
- Ethnologist
- Foreign Service Officer
- Immigration Service Official
- International Aid Agencies Official
- International Business Employee
- Multicultural Education Instructor
- Museum Curator
- Park Ranger
- Park Service Official
- Professor/Teacher
- Refugee Worker
- Researcher
- Social Science Teacher

- Social Worker
- Travel Consultant
- Urban Planner

Features

The Department administers the Clarence E. Smith Museum of Anthropology, located on the fourth floor of Meiklejohn Hall. The museum houses a sizable collection of archaeological artifacts recovered in Alameda and Contra Costa Counties, as well as ethnographic specimens from cultural groups throughout the world. The museum is an instructional facility for museum curating, research, design, and exhibits. Museum exhibits and special events are open to the public free of charge. For information, call (510) 885-7414 or (510) 885-3104.

Major Requirements (B.A.) 64-65 units

Please consult an advisor in your major department for clarification and interpretation. The B.A. requires a total of 180 units.

- The core major consists of 48 units;
- the Archaeology/Biological Anthropology Option consists of 16 units;
- the Socio-Cultural Anthropology Option consists of 17 units;
- GE/USHG/UWS consists of 84 units
- Free Elective consist of 31-32 units.

Highly Recommended Courses in Supporting Fields

It is highly recommended that majors refine their skills in one or more supporting disciplines depending on their academic interests and long-term career/educational goals. When possible, they should satisfy their G.E. requirements from the courses listed below. In addition, students intending to pursue graduate work and who cannot yet demonstrate competence in a foreign language through testing are urged to elect or add modern language courses. A faculty advisor will assist students in making choices from the following list:

- BIOL 1001 - Introduction to Biology *Units: 4*
- BIOL 1002 - Introduction to Biology Lab *Units: 1*
- BIOL 1005 - How Things Work: The Human Body *Units: 4*
- GEOL 2101 - Physical Geology *Units: 5*
- HIST 3017 - The Twentieth Century *Units: 4*
- SOC 3411 - Sociology of Gender *Units: 4*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*
- Three consecutive quarters of a single modern language.

Lower Division Core (12 units)

The following are required lower division courses in the shared core:

- ANTH 1100 - Introduction to Biological Anthropology *Units: 4*
- ANTH 1200 - Introduction to Archaeology *Units: 4*

- ANTH 1300 - Introduction to Cultural Anthropology *Units: 4*
or ANTH 3000 Anthropology in the Modern World may be substituted on approval of an advisor and the department chair.

Upper Division Core (32 units)

The following are required upper division courses in the shared core:

- ANTH 3100 - Human Evolution I *Units: 4*
- ANTH 3200 - Science in Archaeology *Units: 4*
- ANTH 3400 - Social Anthropology *Units: 4*
- ANTH 3710 - Anthropology and Museums *Units: 4*
- ANTH 3785 - Anthropology in Action *Units: 4*
- ANTH 3800 - Language and Culture *Units: 4*
- ANTH 4910 - Pro-Seminar in Anthropology *Units: 4*

and one (1) course from the following regional studies series:

- ANTH 3500 - North American Indians *Units: 4*
- ANTH 3545 - China *Units: 4*
- ANTH 3580 - Middle East *Units: 4*

Option Requirements

To satisfy the Anthropology B.A. additional courses are required. Choose from the following options:

- Anthropology, Archaeology/Biological Anthropology Option, B.A.
- Anthropology, Socio-Cultural Anthropology Option, B.A.

Archaeology/Biological Anthropology Option (16 units)

Required Courses

Twelve (12) units of required courses:

- ANTH 4240 - Data Analysis in Archaeology *Units: 4*
- ANTH 4250 - Field Course in Archaeology *Units: 5*
- ANTH 4260 - Human Osteology Laboratory *Units: 3*

Elective Course

Choose one of the following for 4 units:

- ANTH 3101 - Human Evolution II *Units: 4*
- ANTH 3110 - Primate Social Behavior *Units: 4*
- ANTH 3250 - Precolumbian America: Aztec, Inca, Maya *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Anthropology, Socio-Cultural Anthropology Option, B.A.

Department & Faculty Information

Anthropology, (B.A.) 180 units

Program Description

Anthropology is the multifaceted study of humanity from an evolutionary, historical, and global perspective. Students in anthropology learn about their own culture as well as those of other peoples as they are shaped by biological evolution, ecological constraints, political history, and sociological conditioning. The Department of Anthropology offers ethnographic, theoretical and methodological courses in five sub-disciplines: biological anthropology, prehistory and archaeology, anthropological linguistics, sociocultural anthropology, and applied anthropology. Regional courses on major populations of the world, especially the heritage cultures of North and South America, and Asia, form an important component of the curriculum. The B.A. degree program bridges the sciences, social sciences, and humanities, preparing students for multidimensional careers. Fundamentally, the study of anthropology cultivates an appreciation of what all humans share, as well as how humans differ across time and space.

At the undergraduate level, students in the B.A. degree program may choose to focus on special interests in two combined sub-disciplines:

- Archaeology and Biological Anthropology emphasize the study of human biology, variation, evolution, and the reconstruction of past ways of life and cultural systems from material remains.
- Socio-Cultural and Applied Anthropology emphasize the study of social and cultural systems of more recent historical and contemporary populations, and the application of anthropological insights into present-day problems.

Other combinations are possible upon consultation with, and approval by, the faculty.

Student Learning Outcomes

Students graduating with a B.A. in Anthropology from Cal State East Bay will be able to:

1. identify, summarize and sequence the basic schools of anthropological thought in all four academic sub-fields of the discipline;

2. apply basic qualitative and quantitative sociocultural (ethnographic), archaeological, or osteological research methods and skills;
3. describe, compare and relate human cultures across different regions of the globe;
4. examine human diversity holistically and scientifically, discriminating among and analyzing conceptions and misconceptions of ethnicity, "race," and human biological variation;
5. identify pragmatic uses of anthropological methods and perspectives in approaching real-world solutions, and identify instances of and opportunities for applications of anthropological tools and ideas in employment and community development, both locally and globally, and
6. communicate information clearly in written and oral forms.

Career Opportunities

- Anthropologist
- Archaeologist
- Artifacts Conservator
- Curator
- Ethnologist
- Foreign Service Officer
- Immigration Service Official
- International Aid Agencies Official
- International Business Employee
- Multicultural Education Instructor
- Museum Curator
- Park Ranger
- Park Service Official
- Professor/Teacher
- Refugee Worker
- Researcher
- Social Science Teacher
- Social Worker
- Travel Consultant
- Urban Planner

Features

The Department administers the Clarence E. Smith Museum of Anthropology, located on the fourth floor of Meiklejohn Hall. The museum houses a sizable collection of archaeological artifacts recovered in Alameda and Contra Costa Counties, as well as ethnographic specimens from cultural groups throughout the world. The museum is an instructional facility for museum curating, research, design, and exhibits. Museum exhibits and special events are open to the public free of charge. For information, call (510) 885-7414 or (510) 885-3104.

Major Requirements (B.A.) 64-65 units

Please consult an advisor in your major department for clarification and interpretation. The B.A. requires a total of 180 units.

- The core major consists of 48 units;
 - the Archaeology/Biological Anthropology Option consists of 16 units;
 - the Socio-Cultural Anthropology Option consists of 17 units;

- GE/USHG/UWS consists of 84 units
- Free Elective consist of 31-32 units.

Highly Recommended Courses in Supporting Fields

It is highly recommended that majors refine their skills in one or more supporting disciplines depending on their academic interests and long-term career/educational goals. When possible, they should satisfy their G.E. requirements from the courses listed below. In addition, students intending to pursue graduate work and who cannot yet demonstrate competence in a foreign language through testing are urged to elect or add modern language courses. A faculty advisor will assist students in making choices from the following list:

- BIOL 1001 - Introduction to Biology *Units: 4*
- BIOL 1002 - Introduction to Biology Lab *Units: 1*
- BIOL 1005 - How Things Work: The Human Body *Units: 4*
- GEOL 2101 - Physical Geology *Units: 5*
- HIST 3017 - The Twentieth Century *Units: 4*
- SOC 3411 - Sociology of Gender *Units: 4*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*
- Three consecutive quarters of a single modern language.

Lower Division Core (12 units)

The following are required lower division courses in the shared core:

- ANTH 1100 - Introduction to Biological Anthropology *Units: 4*
- ANTH 1200 - Introduction to Archaeology *Units: 4*
- ANTH 1300 - Introduction to Cultural Anthropology *Units: 4*
or ANTH 3000 Anthropology in the Modern World may be substituted on approval of an advisor and the department chair.

Upper Division Core (32 units)

The following are required upper division courses in the shared core:

- ANTH 3100 - Human Evolution I *Units: 4*
- ANTH 3200 - Science in Archaeology *Units: 4*
- ANTH 3400 - Social Anthropology *Units: 4*
- ANTH 3710 - Anthropology and Museums *Units: 4*
- ANTH 3785 - Anthropology in Action *Units: 4*
- ANTH 3800 - Language and Culture *Units: 4*
- ANTH 4910 - Pro-Seminar in Anthropology *Units: 4*

and one (1) course from the following regional studies series:

- ANTH 3500 - North American Indians *Units: 4*
- ANTH 3545 - China *Units: 4*

- ANTH 3580 - Middle East *Units: 4*

Option Requirements

To satisfy the Anthropology B.A. additional courses are required. Choose from the following options:

- Anthropology, Archaeology/Biological Anthropology Option, B.A.
- Anthropology, Socio-Cultural Anthropology Option, B.A.

Anthropology, Socio-Cultural Anthropology Option (17 units)

Seventeen (17) units from the list below:

- ANTH 4310 - Field Course in Ethnography *Units: 5*
- One additional regional course from the 3500 series

and any two (2) of the following:

- ANTH 3110 - Primate Social Behavior *Units: 4*
- ANTH 3410 - Folklore *Units: 4*
- ANTH 3720 - Medical Anthropology *Units: 4*
- ANTH 3745 - Human Sexuality: Anthropological Perspectives *Units: 4*
- ANTH 3750 - Women in Cross-Cultural Perspective *Units: 4*
- ANTH 3840 - Folk Religion and Magic *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Environmental Studies, Environment and Society Option, B.A.

Department & Faculty Information

Environmental Studies (B.A.) 180 units

Program Description

The Environmental Studies major is designed to provide an interdisciplinary and multidisciplinary overview of the environmental studies field, coupled with an in-depth study of one subfield. The core

requires coursework in the sciences and social sciences and students may build options based on one or several related fields in these categories. As part of the Environmental Studies major, students must select a 16 unit program of electives. Three options allow students latitude in providing specialization to a particular field of interest: Environment and Society, Physical Environment and Sustainable Resource Management. Courses in these options must be distributed across two departments. Environmental Studies majors are provided internship and service learning opportunities through assignments in public and private agencies on projects related to citizen action, environmental management and planning, or in research. Ten to twenty hours weekly are required and are supervised and evaluated by agency personnel.

Student Learning Outcomes

Students graduating with a B.A. in Environmental Studies from Cal State East Bay will be able to:

demonstrate the knowledge, skills and sensitivities needed to perform effectively as an environmental professional individuals and in a team setting;

demonstrate a basic understanding of politics, law, economics, ethics, biology, chemistry, geography and geology as they apply to the environmental studies field;

communicate clearly and persuasively concerning a range of environmental issues both orally and in writing and to critically analyze environmental impact reports, statements and assessments;

apply scientific reasoning and quantitative and statistical methods applicable in the environmental field;

understand the practical/field dimensions of a range of Bay Area environmental issues and their linkages to regional, national and global processes critical to sustainable development;

Career Opportunities

- Administrator
- Citizen Activist
- Consumer Affairs Specialist
- Educator
- Energy Impact Assessor
- Environmental Auditor
- Environmental Compliance Officer
- Historical Preservationist
- Journalist
- Land Acquisition Analyst
- Lawyer Librarian
- Mediator
- Open Space and Recreation Planner
- Solid Waste and Recycling Specialist
- Sustainability Manager
- Water Control Inspector
- Water Conservationist
- Watershed Manager

Scholarship

Richard and Evelyn Thoman Scholarship in Geography and Environmental Studies

One \$500 scholarship awarded each academic year for full-time undergraduate or graduate studies. Awards are limited to students with upper division or graduate standing. A grade point average of 3.5 or higher is required, and demonstrated scholastic and creative ability in the field of Geography or Environmental Studies.

Advanced Placement

Students who earn a grade of 3 or higher on the College Entrance Examination Board's Advanced Placement Test in Environmental Science will be given 4 units of credit equivalent to ENVT 2000.

Major Requirements (B.A.) 93-94 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 77-78 units;
- the Environment and Society Option consists of 16 units;
- the Physical Environment Option consists of 16 units.
- the Sustainable Resource Management Option consists of 16 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (32-33 units)

- CHEM 1100 - Introduction to College Chemistry *Units: 5*
- ENSC 2400 - Environmental Biology *Units: 4*
and ENSC 2401 Environmental Biology Laboratory Unit:1 (*preferred pair*)
or
- BIOL 1000 - Basic Concepts in Biology *Units: 5*
or
- BIOL 1001 - Introduction to Biology *Units: 4*
and BIOL 1002 Introduction to Biology Lab
- ECON 2301 - Principles of Microeconomics *Units: 4 or crosslisted GEOG 2301. (prerequisite required)*
- ENVT 2000 - Introduction to Environmental Studies *Units: 4*
- GEOG 2100 - Physical Geography *Units: 4*
or GEOG 2400 Geography of World Development
- GEOL 2210 - Environmental Geology *Units: 4*
and GEOL 2211 Environmental Geology Laboratory Units:1 (*preferred pair*)
or
- GEOL 1000 - Earth Systems Science *Units: 5*
or
- GEOL 1001 - Introduction to the Earth Sciences *Units: 4*

and GEOL 1002 Earth Sciences Laboratory

- STAT 1000 - Elements of Probability and Statistics *Units: 5*
or STAT 2010 Elements of Statistics for Business and Economics

Upper Division Core (45 units)

- ECON 4306 - Environmental Economics *Units: 4*
or
- PHIL 3151 - Environmental Ethics *Units: 4*

- ENVT 3400 - Environmental Resource Analysis *Units: 4*
- ENVT 4100 - Environmental Impact Analysis *Units: 4*
- ENVT 4800 - Senior Seminar in Environmental Studies *Units: 3*
- GEOG 3000 - Sustainable Resource Management *Units: 4*
- GEOG 3030 - Fundamentals of Geographic Information Systems *Units: 4*
- GEOG 3450 - Literature and Research Methods *Units: 5*
- HIST 3505 - California Environmental History *Units: 4*

- POSC 3460 - Environmental Law *Units: 4*
or
- POSC 4171 - Public Policy and the Environment *Units: 4*

And two courses from the following:

- ENVT 3480 - Applied Field Studies *Units: 4 or cross-listed GEOG 4320.*
- ENVT 4300 - Environmental Field Studies *Units: 5*

Option Requirements

Students must select one of the following options. Four courses, totaling 16 units, distributed across at least two catalog prefixes, in one of the following three options:

- Environmental Studies, Environment and Society Option, B.A.
- Environmental Studies, Physical Environment Option, B.A.
- Environmental Studies, Sustainable Resource Management Option, B.A.

Environment and Society Option (16 units)

Choose 16 units from the following:

- ENVT 4320 - Energy and Society *Units: 4*
or
- GEOG 4320 - Energy and Society *Units: 4*

- ENVT 4910 - Internship in Environmental Studies *Units: 2-4*

- ECON 4306 - Environmental Economics *Units: 4 **
- GEOG 4330 - Sustainable Development *Units: 4*
- HSC 2001 - Environmental Factors in Health *Units: 4*
or
- HSC 3200 - Environmental Health *Units: 4*
- INTS 3100 - Global Systems *Units: 4*
- PHIL 3151 - Environmental Ethics *Units: 4*
- PHIL 3511 - Philosophy of Human Rights and Global Justice *Units: 4*
- POSC 3120 - State and Local Politics and Government *Units: 4*
- POSC 3130 - Urban Politics *Units: 4*
- POSC 3800 - Public Policy Analysis *Units: 4*
- POSC 4171 - Public Policy and the Environment *Units: 4 **
- PUAD 4800 - Public Administration and Society *Units: 4*
- REC 4050 - Social Justice in Hospitality, Recreation and Tourism *Units: 4*

Note: **if not used for upper division core*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Environmental Studies, Physical Environment Option, B.A.

Department & Faculty Information

Environmental Studies (B.A.) 180 units

Program Description

The Environmental Studies major is designed to provide an interdisciplinary and multidisciplinary overview of the environmental studies field, coupled with an in-depth study of one subfield. The core requires coursework in the sciences and social sciences and students may build options based on one or several related fields in these categories. As part of the Environmental Studies major, students must select a 16 unit program of electives. Three options allow students latitude in providing specialization to a particular field of interest: Environment and Society, Physical Environment and Sustainable Resource

Management. Courses in these options must be distributed across two departments. Environmental Studies majors are provided internship and service learning opportunities through assignments in public and private agencies on projects related to citizen action, environmental management and planning, or in research. Ten to twenty hours weekly are required and are supervised and evaluated by agency personnel.

Student Learning Outcomes

Students graduating with a B.A. in Environmental Studies from Cal State East Bay will be able to:

demonstrate the knowledge, skills and sensitivities needed to perform effectively as an environmental professional individuals and in a team setting;

demonstrate a basic understanding of politics, law, economics, ethics, biology, chemistry, geography and geology as they apply to the environmental studies field;

communicate clearly and persuasively concerning a range of environmental issues both orally and in writing and to critically analyze environmental impact reports, statements and assessments;

apply scientific reasoning and quantitative and statistical methods applicable in the environmental field;

understand the practical/field dimensions of a range of Bay Area environmental issues and their linkages to regional, national and global processes critical to sustainable development;

Career Opportunities

- Administrator
- Citizen Activist
- Consumer Affairs Specialist
- Educator
- Energy Impact Assessor
- Environmental Auditor
- Environmental Compliance Officer
- Historical Preservationist
- Journalist
- Land Acquisition Analyst
- Lawyer Librarian
- Mediator
- Open Space and Recreation Planner
- Solid Waste and Recycling Specialist
- Sustainability Manager
- Water Control Inspector
- Water Conservationist
- Watershed Manager

Scholarship

Richard and Evelyn Thoman Scholarship in Geography and Environmental Studies

One \$500 scholarship awarded each academic year for full-time undergraduate or graduate studies.

Awards are limited to students with upper division or graduate standing. A grade point average of 3.5 or

higher is required, and demonstrated scholastic and creative ability in the field of Geography or Environmental Studies.

Advanced Placement

Students who earn a grade of 3 or higher on the College Entrance Examination Board's Advanced Placement Test in Environmental Science will be given 4 units of credit equivalent to ENVT 2000.

Major Requirements (B.A.) 93-94 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 77-78 units;
- the Environment and Society Option consists of 16 units;
- the Physical Environment Option consists of 16 units.
- the Sustainable Resource Management Option consists of 16 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (32-33 units)

- CHEM 1100 - Introduction to College Chemistry *Units: 5*
- ENSC 2400 - Environmental Biology *Units: 4*
and ENSC 2401 Environmental Biology Laboratory Unit:1 (*preferred pair*)
or
- BIOL 1000 - Basic Concepts in Biology *Units: 5*
or
- BIOL 1001 - Introduction to Biology *Units: 4*
and BIOL 1002 Introduction to Biology Lab
- ECON 2301 - Principles of Microeconomics *Units: 4 or crosslisted GEOG 2301. (prerequisite required)*
- ENVT 2000 - Introduction to Environmental Studies *Units: 4*
- GEOG 2100 - Physical Geography *Units: 4*
or GEOG 2400 Geography of World Development
- GEOL 2210 - Environmental Geology *Units: 4*
and GEOL 2211 Environmental Geology Laboratory Units:1 (*preferred pair*)
or
- GEOL 1000 - Earth Systems Science *Units: 5*
or
- GEOL 1001 - Introduction to the Earth Sciences *Units: 4*
and GEOL 1002 Earth Sciences Laboratory
- STAT 1000 - Elements of Probability and Statistics *Units: 5*

or STAT 2010 Elements of Statistics for Business and Economics

Upper Division Core (45 units)

- ECON 4306 - Environmental Economics *Units: 4*
or
- PHIL 3151 - Environmental Ethics *Units: 4*

- ENVT 3400 - Environmental Resource Analysis *Units: 4*
- ENVT 4100 - Environmental Impact Analysis *Units: 4*
- ENVT 4800 - Senior Seminar in Environmental Studies *Units: 3*
- GEOG 3000 - Sustainable Resource Management *Units: 4*
- GEOG 3030 - Fundamentals of Geographic Information Systems *Units: 4*
- GEOG 3450 - Literature and Research Methods *Units: 5*
- HIST 3505 - California Environmental History *Units: 4*

- POSC 3460 - Environmental Law *Units: 4*
or
- POSC 4171 - Public Policy and the Environment *Units: 4*

And two courses from the following:

- ENVT 3480 - Applied Field Studies *Units: 4 or cross-listed GEOG 4320.*
- ENVT 4300 - Environmental Field Studies *Units: 5*

Option Requirements

Students must select one of the following options. Four courses, totaling 16 units, distributed across at least two catalog prefixes, in one of the following three options:

- Environmental Studies, Environment and Society Option, B.A.
- Environmental Studies, Physical Environment Option, B.A.
- Environmental Studies, Sustainable Resource Management Option, B.A.

Physical Environment Option (16 units)

Choose 16 units from the following:

- BIOL 4130 - Biogeography *Units: 4*
or
- GEOG 4130 - Biogeography *Units: 4*

- ENSC 3500 - Environmental Hydrology *Units: 4*
- ENVT 4910 - Internship in Environmental Studies *Units: 2-4*
- GEOG 2100 - Physical Geography *Units: 4 **
- GEOG 3115 - Physical Landscape Analysis *Units: 4*

- GEOG 3120 - Climate Change *Units: 4*
- GEOG 4425 - Remote Sensing of Earth Environments *Units: 4*
- GEOL 1201 - Introduction to Oceanography *Units: 4*
- GEOL 1202 - Oceanography Laboratory *Units: 2*
- GEOL 2000 - Introduction to the Geology of California *Units: 4*
- GEOL 2101 - Physical Geology *Units: 5*
- GEOL 2301 - Natural Hazards *Units: 4*
- GEOL 3040 - Weather and the Atmosphere *Units: 4*
- GEOL 3100 - Geology of the Western National Parks *Units: 4*
- GEOL 3110 - Principles of Geomorphology *Units: 4*
- GEOL 3400 - General Oceanography *Units: 4*
- GEOL 4320 - Hydrogeology *Units: 4*

*Note: * if not used for lower division core.*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Environmental Studies, Sustainable Resource Management Option, B.A.

Department & Faculty Information

Environmental Studies (B.A.) 180 units

Program Description

The Environmental Studies major is designed to provide an interdisciplinary and multidisciplinary overview of the environmental studies field, coupled with an in-depth study of one subfield. The core requires coursework in the sciences and social sciences and students may build options based on one or several related fields in these categories. As part of the Environmental Studies major, students must select a 16 unit program of electives. Three options allow students latitude in providing specialization to a particular field of interest: Environment and Society, Physical Environment and Sustainable Resource Management. Courses in these options must be distributed across two departments. Environmental Studies majors are provided internship and service learning opportunities through assignments in public and private agencies on projects related to citizen action, environmental management and planning, or in research. Ten to twenty hours weekly are required and are supervised and evaluated by agency personnel.

Student Learning Outcomes

Students graduating with a B.A. in Environmental Studies from Cal State East Bay will be able to:

demonstrate the knowledge, skills and sensitivities needed to perform effectively as an environmental professional individuals and in a team setting;

demonstrate a basic understanding of politics, law, economics, ethics, biology, chemistry, geography and geology as they apply to the environmental studies field;

communicate clearly and persuasively concerning a range of environmental issues both orally and in writing and to critically analyze environmental impact reports, statements and assessments;

apply scientific reasoning and quantitative and statistical methods applicable in the environmental field;

understand the practical/field dimensions of a range of Bay Area environmental issues and their linkages to regional, national and global processes critical to sustainable development;

Career Opportunities

- Administrator
- Citizen Activist
- Consumer Affairs Specialist
- Educator
- Energy Impact Assessor
- Environmental Auditor
- Environmental Compliance Officer
- Historical Preservationist
- Journalist
- Land Acquisition Analyst
- Lawyer Librarian
- Mediator
- Open Space and Recreation Planner
- Solid Waste and Recycling Specialist
- Sustainability Manager
- Water Control Inspector
- Water Conservationist
- Watershed Manager

Scholarship

Richard and Evelyn Thoman Scholarship in Geography and Environmental Studies

One \$500 scholarship awarded each academic year for full-time undergraduate or graduate studies.

Awards are limited to students with upper division or graduate standing. A grade point average of 3.5 or higher is required, and demonstrated scholastic and creative ability in the field of Geography or Environmental Studies.

Advanced Placement

Students who earn a grade of 3 or higher on the College Entrance Examination Board's Advanced Placement Test in Environmental Science will be given 4 units of credit equivalent to ENVT 2000.

Major Requirements (B.A.) 93-94 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 77-78 units;
- the Environment and Society Option consists of 16 units;
- the Physical Environment Option consists of 16 units.
- the Sustainable Resource Management Option consists of 16 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (32-33 units)

- CHEM 1100 - Introduction to College Chemistry *Units: 5*
- ENSC 2400 - Environmental Biology *Units: 4*
and ENSC 2401 Environmental Biology Laboratory Unit:1 (*preferred pair*)
or
- BIOL 1000 - Basic Concepts in Biology *Units: 5*
or
- BIOL 1001 - Introduction to Biology *Units: 4*
and BIOL 1002 Introduction to Biology Lab
- ECON 2301 - Principles of Microeconomics *Units: 4 or crosslisted GEOG 2301. (prerequisite required)*
- ENVT 2000 - Introduction to Environmental Studies *Units: 4*
- GEOG 2100 - Physical Geography *Units: 4*
or GEOG 2400 Geography of World Development
- GEOL 2210 - Environmental Geology *Units: 4*
and GEOL 2211 Environmental Geology Laboratory Units:1 (*preferred pair*)
or
- GEOL 1000 - Earth Systems Science *Units: 5*
or
- GEOL 1001 - Introduction to the Earth Sciences *Units: 4*
and GEOL 1002 Earth Sciences Laboratory
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
or STAT 2010 Elements of Statistics for Business and Economics

Upper Division Core (45 units)

- ECON 4306 - Environmental Economics *Units: 4*
or
- PHIL 3151 - Environmental Ethics *Units: 4*
- ENVT 3400 - Environmental Resource Analysis *Units: 4*
- ENVT 4100 - Environmental Impact Analysis *Units: 4*
- ENVT 4800 - Senior Seminar in Environmental Studies *Units: 3*
- GEOG 3000 - Sustainable Resource Management *Units: 4*
- GEOG 3030 - Fundamentals of Geographic Information Systems *Units: 4*
- GEOG 3450 - Literature and Research Methods *Units: 5*
- HIST 3505 - California Environmental History *Units: 4*
- POSC 3460 - Environmental Law *Units: 4*
or
- POSC 4171 - Public Policy and the Environment *Units: 4*

And two courses from the following:

- ENVT 3480 - Applied Field Studies *Units: 4 or cross-listed GEOG 4320.*
- ENVT 4300 - Environmental Field Studies *Units: 5*

Option Requirements

Students must select one of the following options. Four courses, totaling 16 units, distributed across at least two catalog prefixes, in one of the following three options:

- Environmental Studies, Environment and Society Option, B.A.
- Environmental Studies, Physical Environment Option, B.A.
- Environmental Studies, Sustainable Resource Management Option, B.A.

Sustainable Resource Management Option (16 units)

Choose 16 units from the following:

8 units Required:

- ENVT 4320 - Energy and Society *Units: 4 (or cross-listed GEOG 4320).*
- GEOG 4350 - Water Resources and Management *Units: 4*

Electives:

Choose 8 units from the following:

- BIOL 3110 - Principles of Ecology *Units: 4*
- ECON 4306 - Environmental Economics *Units: 4 **
- ENSC 3500 - Environmental Hydrology *Units: 4*
- ENSC 4140 - Hazardous Waste Management *Units: 4*
- ENVT 4910 - Internship in Environmental Studies *Units: 2-4*
- GEOG 3410 - Air-Photo Interpretation *Units: 4*

- GEOG 3600 - Cartographic Principles and Graphic Communication *Units: 4*
- GEOG 3605 - Computer Cartography *Units: 5*
- GEOG 4330 - Sustainable Development *Units: 4*
- GEOG 4425 - Remote Sensing of Earth Environments *Units: 4*
- GEOG 4605 - Applications of GIS *Units: 5*
- HOS 4550 - Global Tourism *Units: 4*
- MGMT 3110 - Project Management *Units: 4*
- POSC 4445 - Bureaucratic Politics and Administrative Law *Units: 4*
- REC 3305 - Outdoor Living Skills *Units: 4*

or

- REC 4705 - Outdoor Adventure Recreation *Units: 4*

*Note: * if not used for upper division core.*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Geography, B.A.

Department & Faculty Information

Geography (B.A./B.S.) 180 units

Program Description

Geography is the study of spatial distributions, relations, processes and outcomes within the human-environment system. Attention is focused on historical and contemporary human activities in the natural and built environment, and on people as the major physical, social, cultural and economic change agents across the earth's surface. A curriculum in Geography helps students understand the world's landscape and how it has been transformed or altered by either the earth's natural processes or human modifications, and the future sustainability of our current actions in the light of our past experiences.

At Cal State East Bay, students can choose between a Bachelor of Science (B.S.) degree and a Bachelor of Arts (B.A.) degree with a major in Geography. A B.S. degree major is appropriately suited for students with career objectives in the professional field of Geography. It is also highly recommended for those planning to enter a graduate school program in Geography. Obtaining a Bachelors of Arts degree major provides for a liberal education, and prepares students for positions in business, government, foreign service, and especially teaching. Combining geography with coursework in other social sciences or with

other science fields is excellent preparation for teachers in secondary education. Both majors require 61 units, 16 lower division and 45 upper division.

Student Learning Outcomes

Students graduating with a Geography, B.A. or Geography, B.S. from Cal State East Bay will be able to:

1. demonstrate a broad and deep understanding of the fundamental concepts and techniques of the discipline of Geography;
2. prepare, use, and interpret maps and other spatial data with and without the aid of computers;
3. communicate geographic ideas, perspectives and conclusions clearly and persuasively orally, in writing and through maps and graphics;
4. think critically and apply analytical and quantitative reasoning to assess problems across local, national and global geographic scales and to effect practical and sustainable solutions both as an individual and within a team;
5. demonstrate their knowledge of the characteristics and cultures of two world regions in addition to their own.

Career Opportunities

- Aerial Photo Interpreter
- Agricultural Geographer
- Cartographer
- Census Analyst
- Climatologist
- Community Development Specialist
- Demographer
- Development Specialist
- Ecologist
- Economic Development Analyst
- Environmental Analyst/Planner
- Geographical Information Systems Specialist
- Map Curator
- Natural Resources Manager
- Park Ranger
- Public Utility Administrator
- Recreational Resource Planner
- Soil Conservationist
- Sustainability Coordinator
- Transportation Planner
- Urban Geographer
- Zoning Specialist/Surveyor

Features

With the arrangement of a faculty advisor, students in the Bachelor of Science program can select from the following fields of concentration: biogeography, cartography, cultural geography, economic geography, historical geography, history and philosophy of geography, physical geography, regional geography, resource management and sustainability.

The department also offers two certificate programs open to students from all majors. The first is a Cartography and GIS Certificate for those wanting to learn skills and methods in data collection, interpretation, and analysis as well as the design, compilation, production, and reproduction of maps. The second is a Sustainable Resource Management Certificate for those wanting a specialization in the field of sustainable resource and environmental management.

Geographic internships and service learning options are available to our majors. Individual students can gain practical experience with public, private, or volunteer agencies.

Scholarship

Richard and Evelyn Thoman Scholarship in Geography and Environmental Studies

One \$500 scholarship is awarded each academic year for full-time undergraduate or graduate studies. Awards are limited to students with upper division or graduate standing. A grade point average of 3.5 or higher is required, and demonstrated scholastic and creative ability in the field of Geography or Environmental Studies.

Major Requirements (B.A./B.S.) 61-73 units

The B.A. and B.S. degrees require a total of 180 units.

- The core major consists of 61-73 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (12 units)

The following are shared core lower division courses for the B.A. and B.S. majors:

- GEOG 2100 - Physical Geography *Units: 4*
- GEOG 2300 - Cultural Geography *Units: 4*
- GEOG 2310 - Economic and Resource Geography *Units: 4*

Upper Division Core (9 units)

The following are shared core upper division courses for the B.A. and B.S. majors:

- GEOG 3115 - Physical Landscape Analysis *Units: 4*
- GEOG 3450 - Literature and Research Methods *Units: 5*

Proficiency Requirements (0-12) units

Proficiency in reading a modern language, at the first-year level, must be demonstrated by successful completion of a departmental examination; or proficiency in statistics, at the level of a 3000 series course, must be demonstrated by passing an examination set by the Statistics Department; or proficiency in Mathematics, at the level of Calculus III, must be certified by the Department of Mathematics and Computer Science. Appropriate coursework will be recommended to students who do not pass an examination.

Required Courses (B.A.) (40 units)

The following Upper Division courses are required for the Geography B.A. degree:

One Technical Course Required

Choose one of the following for 4 units:

- GEOG 3410 - Air-Photo Interpretation *Units: 4*
- GEOG 3600 - Cartographic Principles and Graphic Communication *Units: 4*

Resource Courses Required

Choose two (2) courses from the following for 8 units:

- GEOG 3000 - Sustainable Resource Management *Units: 4*
- GEOG 3320 - Food, Culture and Environment *Units: 4*
- GEOG 4320 - Energy and Society *Units: 4*
- GEOG 4350 - Water Resources and Management *Units: 4*

Additional Courses

- One Cultural course (4 units) selected from GEOG 3000-level courses with consent of advisor.
- One Regional course (4units) selected from the GEOG 3500 series.
- One Upper Division GEOG course (4 units) covering field geography of the San Francisco Bay region with consent of advisor.
- Four Elective GEOG courses (16 units) including not more than 4 additional units in the 3500 series, and to include at least 8 units of the 4000-level series by advisement.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Bachelor of Science

Geography, B.S.

Department & Faculty Information

Geography (B.A./B.S.) 180 units

Program Description

Geography is the study of spatial distributions, relations, processes and outcomes within the human-environment system. Attention is focused on historical and contemporary human activities in the natural and built environment, and on people as the major physical, social, cultural and economic change agents across the earth's surface. A curriculum in Geography helps students understand the world's landscape and how it has been transformed or altered by either the earth's natural processes or human modifications, and the future sustainability of our current actions in the light of our past experiences.

At Cal State East Bay, students can choose between a Bachelor of Science (B.S.) degree and a Bachelor of Arts (B.A.) degree with a major in Geography. A B.S. degree major is appropriately suited for students with career objectives in the professional field of Geography. It is also highly recommended for those planning to enter a graduate school program in Geography. Obtaining a Bachelors of Arts degree major provides for a liberal education, and prepares students for positions in business, government, foreign service, and especially teaching. Combining geography with coursework in other social sciences or with other science fields is excellent preparation for teachers in secondary education. Both majors require 61 units, 16 lower division and 45 upper division.

Student Learning Outcomes

Students graduating with a Geography, B.A. or Geography, B.S. from Cal State East Bay will be able to:

1. demonstrate a broad and deep understanding of the fundamental concepts and techniques of the discipline of Geography;
2. prepare, use, and interpret maps and other spatial data with and without the aid of computers;
3. communicate geographic ideas, perspectives and conclusions clearly and persuasively orally, in writing and through maps and graphics;
4. think critically and apply analytical and quantitative reasoning to assess problems across local, national and global geographic scales and to effect practical and sustainable solutions both as an individual and within a team;
5. demonstrate their knowledge of the characteristics and cultures of two world regions in addition to their own.

Career Opportunities

- Aerial Photo Interpreter
- Agricultural Geographer
- Cartographer
- Census Analyst
- Climatologist
- Community Development Specialist
- Demographer
- Development Specialist
- Ecologist
- Economic Development Analyst
- Environmental Analyst/Planner
- Geographical Information Systems Specialist
- Map Curator
- Natural Resources Manager
- Park Ranger
- Public Utility Administrator
- Recreational Resource Planner

- Soil Conservationist
- Sustainability Coordinator
- Transportation Planner
- Urban Geographer
- Zoning Specialist/Surveyor

Features

With the arrangement of a faculty advisor, students in the Bachelor of Science program can select from the following fields of concentration: biogeography, cartography, cultural geography, economic geography, historical geography, history and philosophy of geography, physical geography, regional geography, resource management and sustainability.

The department also offers two certificate programs open to students from all majors. The first is a Cartography and GIS Certificate for those wanting to learn skills and methods in data collection, interpretation, and analysis as well as the design, compilation, production, and reproduction of maps. The second is a Sustainable Resource Management Certificate for those wanting a specialization in the field of sustainable resource and environmental management.

Geographic internships and service learning options are available to our majors. Individual students can gain practical experience with public, private, or volunteer agencies.

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One \$500 scholarship is awarded each academic year for full-time undergraduate or graduate studies. Awards are limited to students with upper division or graduate standing. A grade point average of 3.5 or higher is required, and demonstrated scholastic and creative ability in the field of Geography or Environmental Studies.

Major Requirements (B.A./B.S.) 61-73 units

The B.A. and B.S. degrees require a total of 180 units.

- The core major consists of 61-73 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (12 units)

The following are shared core lower division courses for the B.A. and B.S. majors:

- GEOG 2100 - Physical Geography *Units: 4*
- GEOG 2300 - Cultural Geography *Units: 4*
- GEOG 2310 - Economic and Resource Geography *Units: 4*

Upper Division Core (9 units)

The following are shared core upper division courses for the B.A. and B.S majors:

- GEOG 3115 - Physical Landscape Analysis *Units: 4*
- GEOG 3450 - Literature and Research Methods *Units: 5*

Proficiency Requirements (0-12) units

Proficiency in reading a modern language, at the first-year level, must be demonstrated by successful completion of a departmental examination; or proficiency in statistics, at the level of a 3000 series course, must be demonstrated by passing an examination set by the Statistics Department; or proficiency in Mathematics, at the level of Calculus III, must be certified by the Department of Mathematics and Computer Science. Appropriate coursework will be recommended to students who do not pass an examination.

Required Courses (B.S.) (40 units)

The following Upper Division courses are required for the Geography B.S. degree:

- GEOG 3410 - Air-Photo Interpretation *Units: 4*
- GEOG 3600 - Cartographic Principles and Graphic Communication *Units: 4*

Additional Courses Required

- One course (4 units) from GEOG 3000-level in Applied Field Studies, with consent of advisor.
- One Field course (4 units) in Cultural-Urban Geography.
- Two Cultural courses (8 units) selected from the group comprising the 3300 series.
- Two Regional courses (8 units) selected from the 3500 series.
- Two Elective courses (8 units) in Geography, in the 4000 series by advisement.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

Anthropology Minor

Department & Faculty Information

Minor Requirements (28 units)

The minor requires twenty-eight (28) units in Anthropology to be taken in approximately the following order:

- ANTH 1000 - Introduction to Anthropology *Units: 4*
and one (1) of the following:
- ANTH 1100 - Introduction to Biological Anthropology *Units: 4*
- ANTH 1200 - Introduction to Archaeology *Units: 4*
- ANTH 1300 - Introduction to Cultural Anthropology *Units: 4*
- ANTH 3000 - Anthropology in the Modern World *Units: 4*
and two (2) of the following:
- ANTH 3100 - Human Evolution I *Units: 4* or ANTH 3101 Human Evolution II *Units: 4*
- ANTH 3200 - Science in Archaeology *Units: 4*
- ANTH 3400 - Social Anthropology *Units: 4*
- ANTH 3800 - Language and Culture *Units: 4*
- with one (1) course in the 3500 series (regional ethnography) *4 units*
- and two (2) additional courses in the 3000 and/or 4000-level courses (excluding 3500 series) *8 units*

Course Descriptions

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Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

California Studies Minor

Department & Faculty Information

Program Description

The California Studies Minor offers coursework on California with emphasis on the state's history, government, geography, ethnic diversity, and environment. Such a focus on California's diverse and sizable population, economic development, and geo-social regions will better prepare graduates to address the ongoing economic, demographic, and social evolution challenging California and its political institutions.

Minor Requirements (28-29 units)

The minor consists of 28-29 units. At least 18 of these units must be taken outside the student's major.

I. Core Requirements (20-21 units)

1. History

- HIST 3500 - History of California *Units: 4*

2. Politics

- POSC 3120 - State and Local Politics and Government *Units: 4*
or
- POSC 3150 - Politics of California *Units: 4*

3. Geography

- GEOG 3505 - Geography of California *Units: 4*

4. One course (4 units) on the California ethnic experience, selected from:

- ANTH 3505 - Indians of California *Units: 4*
- COMM 3400 - The Ethnic Media in America *Units: 4*
- ES 3210 - Latinas in the United States *Units: 4*
- ES 3805 - Latin American Immigration *Units: 4*
- ES 4290 - Latino Politics and Public Policy *Units: 4*
- HIST 3515 - Mexican Americans and the West *Units: 4*
- SOC 3416 - Sociology of the Mexican-American Family *Units: 4* ¹

5. One course (4-5 units) on California environmental and scientific perspectives, selected from:

- ANTH 4240 - Data Analysis in Archaeology *Units: 4* ¹
- ANTH 4250 - Field Course in Archaeology *Units: 5* ¹
- BIOL 3210 - Woody Plants of California *Units: 4* ¹
- BIOL 4200 - Plant Taxonomy *Units: 4* ¹
- GEOG 4350 - Water Resources and Management *Units: 4* ¹
- HIST 3505 - California Environmental History *Units: 4*
- POSC 4171 - Public Policy and the Environment *Units: 4*

II. Electives (8 units)

Any course listed above which was not taken in the core, or any course from the following list:

- ECON 3500 - Urban Economics *Units: 4* ¹
- GEOG 3400 - Field Geography of the San Francisco Bay Region *Units: 4* ¹
- GEOL 3100 - Geology of the Western National Parks *Units: 4*
- HIST 3503 - History of the San Francisco Bay Area *Units: 4*
- HIST 4032 - Introduction to Public History *Units: 4*

- POSC 3113 - Political Internship *Units: 2-4*
- POSC 3130 - Urban Politics *Units: 4*
- POSC 3310 - Political Parties and Campaigning *Units: 4*

Any Cooperative Education course with substantial content unique to California and approved in advance by a California Studies advisor.

Footnote

1. Has a prerequisite which is not applicable to the program.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Environmental Studies Minor

Department & Faculty Information

The minor is designed to encourage and enable students enrolled in any major to organize their elective courses around a broad study of the environment and its problems from both a social and scientific perspective.

Minor Requirements (35-36 units)

The minor consists of 35-36 units arranged in an integrated pattern, as approved by an advisor. The core program includes four sequential courses (totaling 15-16 units) which are required of all students in the minor. The remaining 20 units are electives selected from the list below.

I. Core Courses (15-16 units)

- ENVT 2000 - Introduction to Environmental Studies *Units: 4*
or
- GEOG 3000 - Sustainable Resource Management *Units: 4*
- ENVT 3400 - Environmental Resource Analysis *Units: 4*
- ENVT 4300 - Environmental Field Studies *Units: 5*

or

- ENVT 3480 - Applied Field Studies *Units: 4*
- ENVT 4800 - Senior Seminar in Environmental Studies *Units: 3*

II. Electives (20 units minimum)

20 units of courses from outside the major department, chosen from the following list and selected to include classes with at least two different program prefixes (e.g. HIST and REC)*:

- BIOL 2005 - Natural History of California *Units: 5*
- ENVT 4320 - Energy and Society *Units: 4*
- GEOG 3120 - Climate Change *Units: 4*
- GEOG 4330 - Sustainable Development *Units: 4*
- GEOG 4350 - Water Resources and Management *Units: 4*
- GEOG 4355 - Watershed Management *Units: 4*
- GEOL 2200 and GEOL 2201 Environmental Geology and Lab *Units: 6*
- HIST 3505 - California Environmental History *Units: 4*
- HOS 4550 - Global Tourism *Units: 4*
- HSC 3200 - Environmental Health *Units: 4*
- PHIL 3151 - Environmental Ethics *Units: 4*
- POSC 3460 - Environmental Law *Units: 4*
- POSC 4171 - Public Policy and the Environment *Units: 4*
- REC 3305 - Outdoor Living Skills *Units: 4*
- REC 4705 - Outdoor Adventure Recreation *Units: 4*

Note:

* Offerings will be expanded as new courses become available. See Environmental Studies advisor

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Geography Minor

Department & Faculty Information

Minor Requirements (36 units)

The minor consists of 36 units.

- GEOG 2100 - Physical Geography *Units: 4*
- GEOG 2300 - Cultural Geography *Units: 4*
- GEOG 3410 - Air-Photo Interpretation *Units: 4*
- Two regional courses (3500 series) from different instructors *Units: 8*

Four courses from one of the following groups (16 units):

A. Human Geography Option

- GEOG 2310 - Economic and Resource Geography *Units: 4*
- GEOG 3320 - Food, Culture and Environment *Units: 4*
- GEOG 3360 - Historical Geography of North America *Units: 4*
- One course selected from GEOG 3000-level courses with consent of advisor

B. Physical-Biotic Resources Option:

- GEOG 3115 - Physical Landscape Analysis *Units: 4*
- GEOG 3120 - Climate Change *Units: 4*
- GEOG 4320 - Energy and Society *Units: 4*
- GEOG 4350 - Water Resources and Management *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Certificate (Undergraduate) Program

Cartography and GIS Certificate

Department & Faculty Information

The Cartography and GIS Certificate Program consists of 20 units. It is designed to prepare students in methods of data collection, interpretation, and analysis as well as the design, compilation, production, and reproduction of maps, thus enabling students to be current in the field of cartography.

Select at least 20 units from the following:

- GEOG 3410 - Air-Photo Interpretation *Units: 4*
- GEOG 3600 - Cartographic Principles and Graphic Communication *Units: 4*
- GEOG 3605 - Computer Cartography *Units: 5*
- GEOG 4425 - Remote Sensing of Earth Environments *Units: 4*
- GEOG 4605 - Applications of GIS *Units: 5*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Sustainable Resource Management Certificate

Department & Faculty Information

Certificate Requirements (28 units)

Prerequisites

- STAT 1000 Elements of Probability and Statistics (Units 5), or
- An AA degree, or
- Completion of lower division requirements for a four-year degree program.

Required Courses (16 units)

- GEOG 3000 - Sustainable Resource Management *Units: 4*
- ENVT 3400 - Environmental Resource Analysis *Units: 4*
- ENVT 4100 - Environmental Impact Analysis *Units: 4*
- MGMT 3110 - Project Management *Units: 4*

Elective Courses (12 units)

Select three (3) courses from the following:

- GEOG 3480 - Applied Field Studies *Units: 4*
or
- ENVT 3480 - Applied Field Studies *Units: 4*
- GEOG 4320 - Energy and Society *Units: 4*
or

- ENVT 4320 - Energy and Society *Units: 4*
- GEOG 4330 - Sustainable Development *Units: 4*
- GEOG 4350 - Water Resources and Management *Units: 4*
- GEOG 6780 - Seminar in Environmental Planning *Units: 4*
- GEOG 6820 - Seminar in Sustainable Cities *Units: 4*
- MGMT 6460 - Strategic Management for a Sustainable Society *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Department of Art

The Department Office is located in the Arts & Education building, Room 1233.

Open 8:00 a.m. - 5:00 p.m., Monday - Thursday, closed Fridays.

Dept. Phone: (510) 885-3111

Faculty

Professors Emeriti

Phillip A. Hofstetter, M.A. California State University, Hayward

Mark Levy, Ph.D. Indiana University

Professors

Michael Henninger, M.F.A. California College of Arts and Crafts

Scott H. Hopkins, M.F.A. University of Arizona

Grace Munakata, M.F.A. University of California, Davis

Gwyan Rhabyt (Chair), M.F.A. California College of Arts and Crafts

Suzy Wear, M.A. California State University, Hayward

Associate Professor

Janet Green, M.A. California State University, East Bay

Assistant Professors

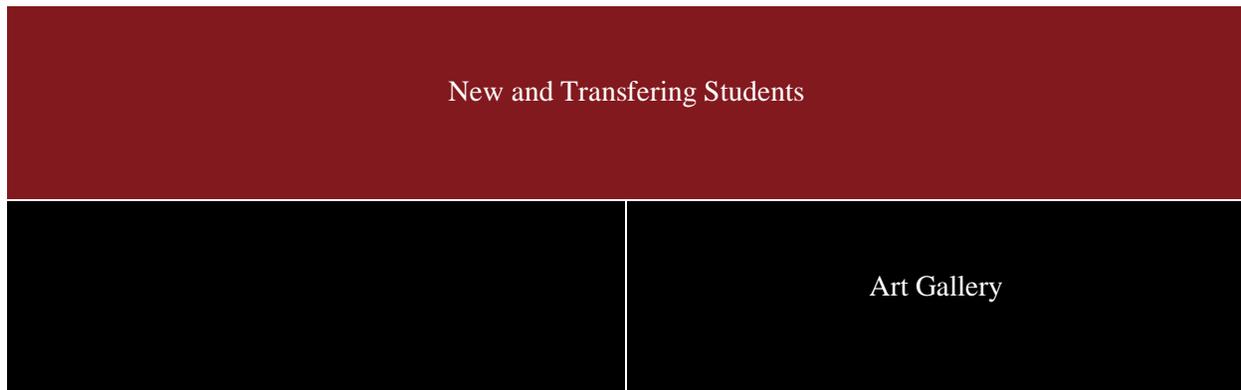
Michael Hall, MFA Mills College

Ian Pollock, M.F.A. University of California, Berkeley

Jessica Santone, Ph.D. McGill University (Canada)

Department Statement

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in the use of art materials and specific art processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about creating art. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, and field trips to museums, galleries, and artists' studios.



Bachelor of Arts

Art, Art History Option, B.A.

Department & Faculty Information

Art (B.A.) 180 units

Program Description

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in use of art materials and specific arts processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about art-making. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, a guest lecturer series, and field trips to museums, galleries and artists' studios.

Seven options for the B.A. degree are offered: Art, Art History Option, B.A., Art, Art Studio Option, B.A., Art, Graphic Design Option (Electronic Arts), B.A., Art, Photography Option, B.A., Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A., Art, Spatial Arts Option (Ceramics/Sculpture), B.A.,

and Art, Multimedia Option (Electronic Arts), B.A. The major consists of 64-86 units; the B.A. requires 180 units.

The department also offers a Bachelor of Fine Arts (B.F.A.) degree. This is a professional degree offering students the opportunity to develop a higher level of expertise. It is often the degree of choice for those who intend to pursue graduate studies or attend other professional schools. It allows time for concentrated work within a specific art discipline: Art, Graphic Design Option, B.F.A., Art, Multimedia Option, B.F.A., Art, Photography Option, B.F.A. and Art, Traditional Arts Option, B.F.A. The major consists of 100-102 units; the B.F.A. requires 180-183 units.

The department is also part of the interdisciplinary graduate M.A. degree program in Multimedia (see Multimedia, M.A.).

The Art Department offers Art Studio Minor, Art History Minor, Photography Minor and Multimedia Minor. A Certificate Program in Art Museum and Gallery Studies is offered through the Division of Continuing and International Education.

Student Learning Outcomes

Students graduating with a B.A. or B.F.A. in Art from Cal State East Bay will be able to:

1. think creatively from the expression of an idea to the completion of a work of art;
2. apply art fundamentals successfully;
3. demonstrate an awareness of the history and context of art in relation to contemporary topics and social, political and cultural issues;
4. communicate an understanding for the use of an art medium for expression; and
5. communicate and apply technical proficiency in areas appropriate to their degree option to produce a cohesive body of work.

Career Possibilities

- Animator
- Artist
- Art Critic
- Art Educator
- Art Historian
- Arts Administrator
- Ceramicist
- Graphic Artist/Designer
- Multimedia Developer
- Museum/Gallery Curator
- Painter
- Photographer/Photojournalist
- Printmaker
- Sculptor
- Video Producer
- Web Developer

Major Requirements (B.A.) 64-86 units

Please consult an advisor in your major department for clarification and interpretation. The B.A. requires a total of 180 units.

- The core major consists of 16 units;
 - the Art Studio Option consists of 62 units;
 - the Graphic Design Option consists of 62 units;
 - the Multimedia Option consists of 66 units;
 - the Photography Option consists of 68 units;
 - the Pictorial Arts Option consists of 66 units;
 - the Spatial Arts Option consists of 66 units;
 - the Art History Option consists of 48 units;
 - GE/USHG/UWS consists of 84 units (some units may double count - see your advisor).
 - Free Electives consist of any remainder units to reach the 180 total units (see your advisor).
- Grade Requirement: All Art majors must receive a grade of C- or better in each course used to satisfy a major requirement.*

Note: Requirements are subject to change, so consult your advisor in the Department of Art for clarification and interpretation of your major requirements.

Lower Division Core (8 units)

The following are required lower division courses for all the B.A. options:

- **ART 1020 - The Creative Process** *Units: 4*
- Art Studio majors:
- ART 1113 Drawing I *Units: 4*
- or*
- Art History majors:
- ART 2630 Digital Photography I *Units: 4*

Upper Division Core (8 units)

The following are required upper division courses for all the B.A. art options:

- **ART 3035 - Modern Art** *Units: 4*
- **ART 3411 - Advanced Survey of World Art** *Units: 4*

Option Requirements

To satisfy the Art B.A. additional courses in a concentration (option) are required. Choose one from the following 7 options:

- Art, Art History Option, B.A.
- Art, Art Studio Option, B.A.
- Art, Graphic Design Option, B.A.
- Art, Multimedia Option (Electronic Art), B.A.
- Art, Photography Option, B.A.
- Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A.
- Art, Spatial Arts Option (Ceramics/Sculpture), B.A.

Art History Option (48 units)

Modern Language Requirements

Sixteen (16) units of one or more foreign languages selected with an advisor; or eight units of one foreign language and eight units selected with an advisor from history, literature, anthropology or ethnic studies.

Elective Courses

Eight upper division courses for 32 units in art history selected with an advisor.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Art, Art Studio Option, B.A.

Department & Faculty Information

Art (B.A.) 180 units

Program Description

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in use of art materials and specific arts processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about art-making. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, a guest lecturer series, and field trips to museums, galleries and artists' studios.

Seven options for the B.A. degree are offered: Art, Art History Option, B.A., Art, Art Studio Option, B.A., Art, Graphic Design Option (Electronic Arts), B.A., Art, Photography Option, B.A., Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A., Art, Spatial Arts Option (Ceramics/Sculpture), B.A., and Art, Multimedia Option (Electronic Arts), B.A. The major consists of 64-86 units; the B.A. requires 180 units.

The department also offers a Bachelor of Fine Arts (B.F.A.) degree. This is a professional degree offering students the opportunity to develop a higher level of expertise. It is often the degree of choice for those

who intend to pursue graduate studies or attend other professional schools. It allows time for concentrated work within a specific art discipline: Art, Graphic Design Option, B.F.A., Art, Multimedia Option, B.F.A., Art, Photography Option, B.F.A. and Art, Traditional Arts Option, B.F.A. The major consists of 100-102 units; the B.F.A. requires 180-183 units.

The department is also part of the interdisciplinary graduate M.A. degree program in Multimedia (see Multimedia, M.A.).

The Art Department offers Art Studio Minor, Art History Minor, Photography Minor and Multimedia Minor. A Certificate Program in Art Museum and Gallery Studies is offered through the Division of Continuing and International Education.

Student Learning Outcomes

Students graduating with a B.A. or B.F.A. in Art from Cal State East Bay will be able to:

1. think creatively from the expression of an idea to the completion of a work of art;
2. apply art fundamentals successfully;
3. demonstrate an awareness of the history and context of art in relation to contemporary topics and social, political and cultural issues;
4. communicate an understanding for the use of an art medium for expression; and
5. communicate and apply technical proficiency in areas appropriate to their degree option to produce a cohesive body of work.

Career Possibilities

- Animator
- Artist
- Art Critic
- Art Educator
- Art Historian
- Arts Administrator
- Ceramicist
- Graphic Artist/Designer
- Multimedia Developer
- Museum/Gallery Curator
- Painter
- Photographer/Photojournalist
- Printmaker
- Sculptor
- Video Producer
- Web Developer

Major Requirements (B.A.) 64-86 units

Please consult an advisor in your major department for clarification and interpretation. The B.A. requires a total of 180 units.

- The core major consists of 16 units;
- the Art Studio Option consists of 62 units;

- the Graphic Design Option consists of 62 units;
 - the Multimedia Option consists of 66 units;
 - the Photography Option consists of 68 units;
 - the Pictorial Arts Option consists of 66 units;
 - the Spatial Arts Option consists of 66 units;
 - the Art History Option consists of 48 units;
 - GE/USHG/UWS consists of 84 units (some units may double count - see your advisor).
 - Free Electives consist of any remainder units to reach the 180 total units (see your advisor).
- Grade Requirement: All Art majors must receive a grade of C- or better in each course used to satisfy a major requirement.*

Note: Requirements are subject to change, so consult your advisor in the Department of Art for clarification and interpretation of your major requirements.

Lower Division Core (8 units)

The following are required lower division courses for all the B.A. options:

- ART 1020 - The Creative Process *Units: 4*
- Art Studio majors:
- ART 1113 Drawing I *Units: 4*
- or*
- Art History majors:
- ART 2630 Digital Photography I *Units: 4*

Upper Division Core (8 units)

The following are required upper division courses for all the B.A. art options:

- ART 3035 - Modern Art *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*

Option Requirements

To satisfy the Art B.A. additional courses in a concentration (option) are required. Choose one from the following 7 options:

- Art, Art History Option, B.A.
- Art, Art Studio Option, B.A.
- Art, Graphic Design Option, B.A.
- Art, Multimedia Option (Electronic Art), B.A.
- Art, Photography Option, B.A.
- Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A.
- Art, Spatial Arts Option (Ceramics/Sculpture), B.A.

Art Studio Option (62 units)

This option allows students to focus on more than one area.

Required Courses

Sixteen (16) units required:

- ART 1112 - Ceramics I *Units: 4 or*
- ART 1116 - Introduction to Sculpture *Units: 4*

- ART 3430 - Junior/Senior Seminar *Units: 2*
- ART 3440 - Visual Literacy *Units: 2*
- ART 4071 - Contemporary Art *Units: 4*
- One additional upper division art history course

Elective Courses

A minimum of 40 additional units taken from the Art Department listing of studio courses, no more than 20 units of which may be lower division. A minimum of 20 units must be taken in a specific option area (Pictorial Arts, Spatial Arts, Photography, Graphic Design or Multimedia) with advisement.

Capstone Requirements

Six (6) units of capstone courses required:

- ART 4710 - Senior Thesis *Units: 2*
- ART 4720 - Senior Seminar *Units: 2*
- ART 4730 - Senior Portfolio *Units: 2*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Art, Graphic Design Option, B.A.

Department & Faculty Information

Art (B.A.) 180 units

Program Description

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in use of art materials and specific arts processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about art-making. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, a guest lecturer series, and field trips to museums, galleries and artists' studios.

Seven options for the B.A. degree are offered: Art, Art History Option, B.A., Art, Art Studio Option, B.A., Art, Graphic Design Option (Electronic Arts), B.A., Art, Photography Option, B.A., Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A., Art, Spatial Arts Option (Ceramics/Sculpture), B.A., and Art, Multimedia Option (Electronic Arts), B.A. The major consists of 64-86 units; the B.A. requires 180 units.

The department also offers a Bachelor of Fine Arts (B.F.A.) degree. This is a professional degree offering students the opportunity to develop a higher level of expertise. It is often the degree of choice for those who intend to pursue graduate studies or attend other professional schools. It allows time for concentrated work within a specific art discipline: Art, Graphic Design Option, B.F.A., Art, Multimedia Option, B.F.A., Art, Photography Option, B.F.A. and Art, Traditional Arts Option, B.F.A. The major consists of 100-102 units; the B.F.A. requires 180-183 units.

The department is also part of the interdisciplinary graduate M.A. degree program in Multimedia (see Multimedia, M.A.).

The Art Department offers Art Studio Minor, Art History Minor, Photography Minor and Multimedia Minor. A Certificate Program in Art Museum and Gallery Studies is offered through the Division of Continuing and International Education.

Student Learning Outcomes

Students graduating with a B.A. or B.F.A. in Art from Cal State East Bay will be able to:

1. think creatively from the expression of an idea to the completion of a work of art;
2. apply art fundamentals successfully;
3. demonstrate an awareness of the history and context of art in relation to contemporary topics and social, political and cultural issues;
4. communicate an understanding for the use of an art medium for expression; and
5. communicate and apply technical proficiency in areas appropriate to their degree option to produce a cohesive body of work.

Career Possibilities

- Animator
- Artist
- Art Critic
- Art Educator
- Art Historian
- Arts Administrator
- Ceramicist
- Graphic Artist/Designer
- Multimedia Developer

- Museum/Gallery Curator
- Painter
- Photographer/Photojournalist
- Printmaker
- Sculptor
- Video Producer
- Web Developer

Major Requirements (B.A.) 64-86 units

Please consult an advisor in your major department for clarification and interpretation. The B.A. requires a total of 180 units.

- The core major consists of 16 units;
 - the Art Studio Option consists of 62 units;
 - the Graphic Design Option consists of 62 units;
 - the Multimedia Option consists of 66 units;
 - the Photography Option consists of 68 units;
 - the Pictorial Arts Option consists of 66 units;
 - the Spatial Arts Option consists of 66 units;
 - the Art History Option consists of 48 units;
 - GE/USHG/UWS consists of 84 units (some units may double count - see your advisor).
 - Free Electives consist of any remainder units to reach the 180 total units (see your advisor).
- Grade Requirement: All Art majors must receive a grade of C- or better in each course used to satisfy a major requirement.*

Note: Requirements are subject to change, so consult your advisor in the Department of Art for clarification and interpretation of your major requirements.

Lower Division Core (8 units)

The following are required lower division courses for all the B.A. options:

- ART 1020 - The Creative Process *Units: 4*
- Art Studio majors:
- ART 1113 Drawing I *Units: 4*
- or*
- Art History majors:
- ART 2630 Digital Photography I *Units: 4*

Upper Division Core (8 units)

The following are required upper division courses for all the B.A. art options:

- ART 3035 - Modern Art *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*

Option Requirements

To satisfy the Art B.A. additional courses in a concentration (option) are required. Choose one from the following 7 options:

- Art, Art History Option, B.A.
- Art, Art Studio Option, B.A.
- Art, Graphic Design Option, B.A.
- Art, Multimedia Option (Electronic Art), B.A.
- Art, Photography Option, B.A.
- Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A.
- Art, Spatial Arts Option (Ceramics/Sculpture), B.A.

Graphic Design Option (Electronic Arts) (62 units)

Electronic artists employ the use of rapidly evolving new media tools to express the human imagination. Computers are used to create, control and integrate images, text, graphics, video, sound, and interactivity. Courses stress the development of strong aesthetic and humanistic sensibilities combined with sophisticated technical abilities.

The Electronic Art program has two option areas: Multimedia and Graphic Design. The Graphic Design Option focuses on art that assumes a printed form; the Multimedia Option focuses on art that assumes an electronic form.

Required Courses

Sixty-two (62) units of required courses:

- ART 2025 - Basics of New Media *Units: 4*
- ART 2630 - Digital Photography I *Units: 4*
- ART 2805 - Computers and Print *Units: 4*
- ART 2810 - Principles of Design *Units: 4*
- ART 2830 - Web Design *Units: 4*
- ART 3144 - Drawing Lab *Units: 2 (take 3 times for 6 units)*
- ART 3400 - History of Art and Technology *Units: 4*
- ART 3810 - Graphic Design I *Units: 4*
- ART 3815 - Typography *Units: 4*
- ART 3830 - Digital Imaging *Units: 4*
- ART 3855 - Graphic Design II *Units: 4*
- ART 3860 - Production Design for Print and Screen *Units: 4*
- ART 3870 - Web Authoring *Units: 4*
- ART 4060 - History of Graphic Design *Units: 4*
- ART 4071 - Contemporary Art *Units: 4*

Capstone Requirements

Eight (8) units of capstone courses required:

- ART 4230 - Graphic Design Senior Project *Units: 4*

- ART 4740 - Professional Practices *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Art, Multimedia Option, B.A.

Department & Faculty Information

Art (B.A.) 180 units

Program Description

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in use of art materials and specific arts processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about art-making. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, a guest lecturer series, and field trips to museums, galleries and artists' studios.

Seven options for the B.A. degree are offered: Art, Art History Option, B.A., Art, Art Studio Option, B.A., Art, Graphic Design Option (Electronic Arts), B.A., Art, Photography Option, B.A., Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A., Art, Spatial Arts Option (Ceramics/Sculpture), B.A., and Art, Multimedia Option (Electronic Arts), B.A. The major consists of 64-86 units; the B.A. requires 180 units.

The department also offers a Bachelor of Fine Arts (B.F.A.) degree. This is a professional degree offering students the opportunity to develop a higher level of expertise. It is often the degree of choice for those who intend to pursue graduate studies or attend other professional schools. It allows time for concentrated work within a specific art discipline: Art, Graphic Design Option, B.F.A., Art, Multimedia Option, B.F.A., Art, Photography Option, B.F.A. and Art, Traditional Arts Option, B.F.A. The major consists of 100-102 units; the B.F.A. requires 180-183 units.

The department is also part of the interdisciplinary graduate M.A. degree program in Multimedia (see Multimedia, M.A.).

The Art Department offers Art Studio Minor, Art History Minor, Photography Minor and Multimedia Minor. A Certificate Program in Art Museum and Gallery Studies is offered through the Division of Continuing and International Education.

Student Learning Outcomes

Students graduating with a B.A. or B.F.A. in Art from Cal State East Bay will be able to:

1. think creatively from the expression of an idea to the completion of a work of art;
2. apply art fundamentals successfully;
3. demonstrate an awareness of the history and context of art in relation to contemporary topics and social, political and cultural issues;
4. communicate an understanding for the use of an art medium for expression; and
5. communicate and apply technical proficiency in areas appropriate to their degree option to produce a cohesive body of work.

Career Possibilities

- Animator
- Artist
- Art Critic
- Art Educator
- Art Historian
- Arts Administrator
- Ceramicist
- Graphic Artist/Designer
- Multimedia Developer
- Museum/Gallery Curator
- Painter
- Photographer/Photojournalist
- Printmaker
- Sculptor
- Video Producer
- Web Developer

Major Requirements (B.A.) 64-86 units

Please consult an advisor in your major department for clarification and interpretation. The B.A. requires a total of 180 units.

- The core major consists of 16 units;
- the Art Studio Option consists of 62 units;
- the Graphic Design Option consists of 62 units;
- the Multimedia Option consists of 66 units;
- the Photography Option consists of 68 units;
- the Pictorial Arts Option consists of 66 units;
- the Spatial Arts Option consists of 66 units;
- the Art History Option consists of 48 units;
- GE/USHG/UWS consists of 84 units (some units may double count - see your advisor).
- Free Electives consist of any remainder units to reach the 180 total units (see your advisor).

Grade Requirement: All Art majors must receive a grade of C- or better in each course used to satisfy a major requirement.

Note: Requirements are subject to change, so consult your advisor in the Department of Art for clarification and interpretation of your major requirements.

Lower Division Core (8 units)

The following are required lower division courses for all the B.A. options:

- ART 1020 - The Creative Process *Units: 4*

Art Studio majors:

- ART 1113 Drawing I *Units: 4*
or

Art History majors:

- ART 2630 Digital Photography I *Units: 4*

Upper Division Core (8 units)

The following are required upper division courses for all the B.A. art options:

- ART 3035 - Modern Art *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*

Option Requirements

To satisfy the Art B.A. additional courses in a concentration (option) are required. Choose one from the following 7 options:

- Art, Art History Option, B.A.
- Art, Art Studio Option, B.A.
- Art, Graphic Design Option, B.A.
- Art, Multimedia Option (Electronic Art), B.A.
- Art, Photography Option, B.A.
- Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A.
- Art, Spatial Arts Option (Ceramics/Sculpture), B.A.

Multimedia Option (Electronic Arts) (66 units)

Electronic artists employ the use of rapidly evolving new media tools to express the human imagination. Computers are used to create, control and integrate images, text, graphics, video, sound, and interactivity. Courses stress the development of strong aesthetic and humanistic sensibilities combined with sophisticated technical abilities.

The Electronic Art program has two option areas: Multimedia and Graphic Design. The Graphic Design Option focuses on art that assumes a printed form; the Multimedia Option focuses on art that assumes an electronic form.

Required Courses

Fifty-eight (58) units required:

- **ART 1114 - Painting I** *Units: 4*
or ART 1115 Printmaking I,
or ART 1116 Introduction to Sculpture,
or select a 4-unit studio class by advisement.
- **ART 2025 - Basics of New Media** *Units: 4*
- **ART 2630 - Digital Photography I** *Units: 4*
- **ART 2810 - Principles of Design** *Units: 4*
- **ART 2830 - Web Design** *Units: 4*
- **ART 3144 - Drawing Lab** *Units: 2*
- **ART 3400 - History of Art and Technology** *Units: 4*
- **ART 3800 - Animation** *Units: 4*
- **ART 3820 - Digital Video** *Units: 4*
- **ART 3825 - Motion Graphics** *Units: 4*
- **ART 3830 - Digital Imaging** *Units: 4*
- **ART 3870 - Web Authoring** *Units: 4*
- **ART 4070 - Currents in New Media** *Units: 4*
- **ART 4071 - Contemporary Art** *Units: 4*
- **ART 4200 - Interactive Authoring** *Units: 4*

Capstone Requirements

Eight (8) units of capstone courses required:

- **ART 4220 - Multimedia Senior Project** *Units: 4*
- **ART 4740 - Professional Practices** *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Art, Photography Option, B.A.

Department & Faculty Information

Art (B.A.) 180 units

Program Description

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in use of art materials and specific arts processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about art-making. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, a guest lecturer series, and field trips to museums, galleries and artists' studios.

Seven options for the B.A. degree are offered: Art, Art History Option, B.A., Art, Art Studio Option, B.A., Art, Graphic Design Option (Electronic Arts), B.A., Art, Photography Option, B.A., Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A., Art, Spatial Arts Option (Ceramics/Sculpture), B.A., and Art, Multimedia Option (Electronic Arts), B.A. The major consists of 64-86 units; the B.A. requires 180 units.

The department also offers a Bachelor of Fine Arts (B.F.A.) degree. This is a professional degree offering students the opportunity to develop a higher level of expertise. It is often the degree of choice for those who intend to pursue graduate studies or attend other professional schools. It allows time for concentrated work within a specific art discipline: Art, Graphic Design Option, B.F.A., Art, Multimedia Option, B.F.A., Art, Photography Option, B.F.A. and Art, Traditional Arts Option, B.F.A. The major consists of 100-102 units; the B.F.A. requires 180-183 units.

The department is also part of the interdisciplinary graduate M.A. degree program in Multimedia (see Multimedia, M.A.).

The Art Department offers Art Studio Minor, Art History Minor, Photography Minor and Multimedia Minor. A Certificate Program in Art Museum and Gallery Studies is offered through the Division of Continuing and International Education.

Student Learning Outcomes

Students graduating with a B.A. or B.F.A. in Art from Cal State East Bay will be able to:

1. think creatively from the expression of an idea to the completion of a work of art;
2. apply art fundamentals successfully;
3. demonstrate an awareness of the history and context of art in relation to contemporary topics and social, political and cultural issues;
4. communicate an understanding for the use of an art medium for expression; and
5. communicate and apply technical proficiency in areas appropriate to their degree option to produce a cohesive body of work.

Career Possibilities

- Animator
- Artist
- Art Critic
- Art Educator
- Art Historian
- Arts Administrator
- Ceramicist

- Graphic Artist/Designer
- Multimedia Developer
- Museum/Gallery Curator
- Painter
- Photographer/Photojournalist
- Printmaker
- Sculptor
- Video Producer
- Web Developer

Major Requirements (B.A.) 64-86 units

Please consult an advisor in your major department for clarification and interpretation. The B.A. requires a total of 180 units.

- The core major consists of 16 units;
 - the Art Studio Option consists of 62 units;
 - the Graphic Design Option consists of 62 units;
 - the Multimedia Option consists of 66 units;
 - the Photography Option consists of 68 units;
 - the Pictorial Arts Option consists of 66 units;
 - the Spatial Arts Option consists of 66 units;
 - the Art History Option consists of 48 units;
 - GE/USHG/UWS consists of 84 units (some units may double count - see your advisor).
 - Free Electives consist of any remainder units to reach the 180 total units (see your advisor).
- Grade Requirement: All Art majors must receive a grade of C- or better in each course used to satisfy a major requirement.*

Note: Requirements are subject to change, so consult your advisor in the Department of Art for clarification and interpretation of your major requirements.

Lower Division Core (8 units)

The following are required lower division courses for all the B.A. options:

- ART 1020 - The Creative Process *Units: 4*
- Art Studio majors:
- ART 1113 Drawing I *Units: 4*
- or*
- Art History majors:
- ART 2630 Digital Photography I *Units: 4*

Upper Division Core (8 units)

The following are required upper division courses for all the B.A. art options:

- ART 3035 - Modern Art *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*

Option Requirements

To satisfy the Art B.A. additional courses in a concentration (option) are required. Choose one from the following 7 options:

- Art, Art History Option, B.A.
- Art, Art Studio Option, B.A.
- Art, Graphic Design Option, B.A.
- Art, Multimedia Option (Electronic Art), B.A.
- Art, Photography Option, B.A.
- Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A.
- Art, Spatial Arts Option (Ceramics/Sculpture), B.A.

Photography Option (68 units)

The Photography Option provides well-grounded studies in the aesthetic and practical areas of contemporary camera-generated imagery with an emphasis on digital technologies. Students choose from a wide range of electives to develop skills in specialty areas culminating in capstone classes designed to prepare the students for a career in photography or to apply to graduate school.

Required Courses

Forty-eight (48) units required:

- ART 2025 - Basics of New Media *Units: 4*
- ART 2630 - Digital Photography I *Units: 4*
- ART 2810 - Principles of Design *Units: 4*
- ART 2830 - Web Design *Units: 4*
- ART 3400 - History of Art and Technology *Units: 4*
- ART 3660 - Portrait Photography *Units: 4*
- ART 3670 - Introduction to Studio Lighting *Units: 4*
or crosslisted COMM 3670.
- ART 3830 - Digital Imaging *Units: 4*
- ART 4600 - Image and Idea *Units: 4*
- ART 4620 - History of Photography *Units: 4*
or crosslisted COMM 4620.
- ART 4645 - Creative Photography *Units: 4*
- One upper division art history course.

Elective Courses

Twelve (12) units of elective courses required:

Select 4 units from the following:

- ART 1112 - Ceramics I *Units: 4*
- ART 1114 - Painting I *Units: 4*
- ART 1115 - Printmaking I *Units: 4*

- ART 1116 - Introduction to Sculpture *Units: 4*
- ART 1121 - Introduction to Bookmaking *Units: 4*
Select 8 units from the following:
- ART 2702 - Black and White Photography II *Units: 4*
- ART 3144 - Drawing Lab *Units: 2*
- ART 3440 - Visual Literacy *Units: 2*
- ART 3620 - Alternative Processes in Photography *Units: 4*
- ART 3630 - Digital Photography III *Units: 4*
or crosslisted COMM 3630.
- ART 3640 - Special Topic in Photography *Units: 4*
- ART 3654 - Landscape Photography *Units: 4*
- ART 3655 - Advanced Landscape Photography *Units: 4*
- ART 3661 - Advanced Portrait Photography *Units: 4*
- ART 3671 - Advanced Studio Lighting *Units: 4*
or crosslisted COMM 3671.
- ART 3820 - Digital Video *Units: 4*
- ART 3830 - Digital Imaging *Units: 4*
- ART 3870 - Web Authoring *Units: 4*
- ART 4600 - Image and Idea *Units: 4*
or crosslisted COMM 4600.
- ART 4900 - Independent Study *Units: 1-4*

Capstone Requirements

Eight (8) units of capstone courses required:

- ART 3680 - Photography Career Preparation *Units: 4*
or crosslisted COMM 3680.
- ART 4745 - Senior Project in Photography *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Art, Pictorial Arts Option, B.A.

Department & Faculty Information

Art (B.A.) 180 units

Program Description

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in use of art materials and specific arts processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about art-making. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, a guest lecturer series, and field trips to museums, galleries and artists' studios.

Seven options for the B.A. degree are offered: Art, Art History Option, B.A., Art, Art Studio Option, B.A., Art, Graphic Design Option (Electronic Arts), B.A., Art, Photography Option, B.A., Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A., Art, Spatial Arts Option (Ceramics/Sculpture), B.A., and Art, Multimedia Option (Electronic Arts), B.A. The major consists of 64-86 units; the B.A. requires 180 units.

The department also offers a Bachelor of Fine Arts (B.F.A.) degree. This is a professional degree offering students the opportunity to develop a higher level of expertise. It is often the degree of choice for those who intend to pursue graduate studies or attend other professional schools. It allows time for concentrated work within a specific art discipline: Art, Graphic Design Option, B.F.A., Art, Multimedia Option, B.F.A., Art, Photography Option, B.F.A. and Art, Traditional Arts Option, B.F.A. The major consists of 100-102 units; the B.F.A. requires 180-183 units.

The department is also part of the interdisciplinary graduate M.A. degree program in Multimedia (see Multimedia, M.A.).

The Art Department offers Art Studio Minor, Art History Minor, Photography Minor and Multimedia Minor. A Certificate Program in Art Museum and Gallery Studies is offered through the Division of Continuing and International Education.

Student Learning Outcomes

Students graduating with a B.A. or B.F.A. in Art from Cal State East Bay will be able to:

1. think creatively from the expression of an idea to the completion of a work of art;
2. apply art fundamentals successfully;
3. demonstrate an awareness of the history and context of art in relation to contemporary topics and social, political and cultural issues;
4. communicate an understanding for the use of an art medium for expression; and
5. communicate and apply technical proficiency in areas appropriate to their degree option to produce a cohesive body of work.

Career Possibilities

- Animator
- Artist

- Art Critic
- Art Educator
- Art Historian
- Arts Administrator
- Ceramicist
- Graphic Artist/Designer
- Multimedia Developer
- Museum/Gallery Curator
- Painter
- Photographer/Photojournalist
- Printmaker
- Sculptor
- Video Producer
- Web Developer

Major Requirements (B.A.) 64-86 units

Please consult an advisor in your major department for clarification and interpretation. The B.A. requires a total of 180 units.

- The core major consists of 16 units;
 - the Art Studio Option consists of 62 units;
 - the Graphic Design Option consists of 62 units;
 - the Multimedia Option consists of 66 units;
 - the Photography Option consists of 68 units;
 - the Pictorial Arts Option consists of 66 units;
 - the Spatial Arts Option consists of 66 units;
 - the Art History Option consists of 48 units;
 - GE/USHG/UWS consists of 84 units (some units may double count - see your advisor).
 - Free Electives consist of any remainder units to reach the 180 total units (see your advisor).
- Grade Requirement: All Art majors must receive a grade of C- or better in each course used to satisfy a major requirement.*

Note: Requirements are subject to change, so consult your advisor in the Department of Art for clarification and interpretation of your major requirements.

Lower Division Core (8 units)

The following are required lower division courses for all the B.A. options:

- ART 1020 - The Creative Process *Units: 4*
- Art Studio majors:
- ART 1113 Drawing I *Units: 4*
- or*
- Art History majors:
- ART 2630 Digital Photography I *Units: 4*

Upper Division Core (8 units)

The following are required upper division courses for all the B.A. art options:

- ART 3035 - Modern Art *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*

Option Requirements

To satisfy the Art B.A. additional courses in a concentration (option) are required. Choose one from the following 7 options:

- Art, Art History Option, B.A.
- Art, Art Studio Option, B.A.
- Art, Graphic Design Option, B.A.
- Art, Multimedia Option (Electronic Art), B.A.
- Art, Photography Option, B.A.
- Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A.
- Art, Spatial Arts Option (Ceramics/Sculpture), B.A.

Pictorial Arts Option (Drawing/Painting/Printmaking) (66 units)

Beginning drawing, painting, and printmaking courses offer traditional and nontraditional approaches to studies from life as well as more subjective approaches to imaginative work. Intermediate and advanced courses guide students toward a personal vision.

Required Courses

Thirty-two (32) units required:

- ART 1112 - Ceramics I *Units: 4*
or ART 1116 Introduction to Sculpture
- ART 1114 - Painting I *Units: 4*
- ART 1115 - Printmaking I *Units: 4*
- ART 3141 - Drawing II *Units: 4*
- ART 3212 - Painting II *Units: 4*
- ART 3430 - Junior/Senior Seminar *Units: 2*
- ART 3440 - Visual Literacy *Units: 2*
- ART 4071 - Contemporary Art *Units: 4*
- One additional upper division art history course.

Elective Courses

Twenty-eight (28) units of elective courses:

- ART 3141 - Drawing II *Units: 4*
- ART 3142 - Figure Drawing *Units: 4*
- ART 3212 - Painting II *Units: 4*
- ART 3213 - Painting III *Units: 4*
- ART 4143 - Advanced Drawing *Units: 4*
- ART 4857 - Advanced Printmaking *Units: 4*

- Or other art studio course by advisement.

Capstone Requirements

Six (6) units of capstone courses required:

- ART 4710 - Senior Thesis *Units: 2*
- ART 4720 - Senior Seminar *Units: 2*
- ART 4730 - Senior Portfolio *Units: 2*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Art, Spatial Arts Option, B.A.

Department & Faculty Information

Art (B.A.) 180 units

Program Description

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in use of art materials and specific arts processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about art-making. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, a guest lecturer series, and field trips to museums, galleries and artists' studios.

Seven options for the B.A. degree are offered: Art, Art History Option, B.A., Art, Art Studio Option, B.A., Art, Graphic Design Option (Electronic Arts), B.A., Art, Photography Option, B.A., Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A., Art, Spatial Arts Option (Ceramics/Sculpture), B.A., and Art, Multimedia Option (Electronic Arts), B.A. The major consists of 64-86 units; the B.A. requires 180 units.

The department also offers a Bachelor of Fine Arts (B.F.A.) degree. This is a professional degree offering students the opportunity to develop a higher level of expertise. It is often the degree of choice for those who intend to pursue graduate studies or attend other professional schools. It allows time for concentrated

work within a specific art discipline: Art, Graphic Design Option, B.F.A., Art, Multimedia Option, B.F.A., Art, Photography Option, B.F.A. and Art, Traditional Arts Option, B.F.A. The major consists of 100-102 units; the B.F.A. requires 180-183 units.

The department is also part of the interdisciplinary graduate M.A. degree program in Multimedia (see Multimedia, M.A.).

The Art Department offers Art Studio Minor, Art History Minor, Photography Minor and Multimedia Minor. A Certificate Program in Art Museum and Gallery Studies is offered through the Division of Continuing and International Education.

Student Learning Outcomes

Students graduating with a B.A. or B.F.A. in Art from Cal State East Bay will be able to:

1. think creatively from the expression of an idea to the completion of a work of art;
2. apply art fundamentals successfully;
3. demonstrate an awareness of the history and context of art in relation to contemporary topics and social, political and cultural issues;
4. communicate an understanding for the use of an art medium for expression; and
5. communicate and apply technical proficiency in areas appropriate to their degree option to produce a cohesive body of work.

Career Possibilities

- Animator
- Artist
- Art Critic
- Art Educator
- Art Historian
- Arts Administrator
- Ceramicist
- Graphic Artist/Designer
- Multimedia Developer
- Museum/Gallery Curator
- Painter
- Photographer/Photojournalist
- Printmaker
- Sculptor
- Video Producer
- Web Developer

Major Requirements (B.A.) 64-86 units

Please consult an advisor in your major department for clarification and interpretation. The B.A. requires a total of 180 units.

- The core major consists of 16 units;
- the Art Studio Option consists of 62 units;
- the Graphic Design Option consists of 62 units;

- the Multimedia Option consists of 66 units;
 - the Photography Option consists of 68 units;
 - the Pictorial Arts Option consists of 66 units;
 - the Spatial Arts Option consists of 66 units;
 - the Art History Option consists of 48 units;
 - GE/USHG/UWS consists of 84 units (some units may double count - see your advisor).
 - Free Electives consist of any remainder units to reach the 180 total units (see your advisor).
- Grade Requirement: All Art majors must receive a grade of C- or better in each course used to satisfy a major requirement.*

Note: Requirements are subject to change, so consult your advisor in the Department of Art for clarification and interpretation of your major requirements.

Lower Division Core (8 units)

The following are required lower division courses for all the B.A. options:

- ART 1020 - The Creative Process *Units: 4*
- Art Studio majors:
- ART 1113 Drawing I *Units: 4*
- or*
- Art History majors:
- ART 2630 Digital Photography I *Units: 4*

Upper Division Core (8 units)

The following are required upper division courses for all the B.A. art options:

- ART 3035 - Modern Art *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*

Option Requirements

To satisfy the Art B.A. additional courses in a concentration (option) are required. Choose one from the following 7 options:

- Art, Art History Option, B.A.
- Art, Art Studio Option, B.A.
- Art, Graphic Design Option, B.A.
- Art, Multimedia Option (Electronic Art), B.A.
- Art, Photography Option, B.A.
- Art, Pictorial Arts Option (Drawing/Painting/Printmaking), B.A.
- Art, Spatial Arts Option (Ceramics/Sculpture), B.A.

Spatial Arts Option (Ceramics/Sculpture) (62 units)

The Spatial Arts program familiarizes students with a broad range of sculptural processes. The department has one of the best studio facilities in the Bay Area.

Required Courses

Twenty-four (24) units required:

- **ART 2701 - Black and White Photography** *Units: 4 Please Note: This course is inactive. Consult with the Department for substitution.*
- **ART 3144 - Drawing Lab** *Units: 2 (must be taken 3 times for 6 units) or any six units of upper division drawing.*
- **ART 3440 - Visual Literacy** *Units: 2*
- **ART 4071 - Contemporary Art** *Units: 4*
- Two additional upper division art history courses.
Note: for students on the Interactive Sculpture track, these courses must be ART 3400 History of Art and Technology, and ART 4070 Currents in New Media.

Elective Courses

Students must choose two of the following three elective tracks for 32 units:

Interactive Sculpture

- **ART 3330 - Electronics for Sculpture** *Units: 4*
- **ART 4370 - Human and Machine Performance** *Units: 4*
- Select 4 units of coursework covering tangible digital environments, with consent of department.
- Select 4 units of coursework covering interactive sculpture, with consent of department.

Traditional Sculpture

- **ART 1116 - Introduction to Sculpture** *Units: 4*
- **ART 3316 - Advanced Sculpture** *Units: 4*
- **ART 3340 - Mixed Media Assemblage** *Units: 4*
- Select 4 units of upper division coursework covering fabrication for sculpture, with consent of department.

Ceramics

- **ART 1112 - Ceramics I** *Units: 4*
- **ART 3512 - Ceramics II** *Units: 4*
- **ART 3513 - Ceramics III** *Units: 4*
- Select 4 units of upper division coursework covering figure modeling in clay, with consent of department.

Capstone Requirements

Six (6) units of capstone courses required:

- **ART 4710 - Senior Thesis** *Units: 2*
- **ART 4720 - Senior Seminar** *Units: 2*
- **ART 4730 - Senior Portfolio** *Units: 2*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Bachelor of Fine Arts

Art, Graphic Design Option, B.F.A.

Department & Faculty Information

Art (B.F.A.) 180-182 units

Program Description

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in use of art materials and specific arts processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about art-making. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, a guest lecturer series, and field trips to museums, galleries and artists' studios.

The B.F.A. degree is a professional degree offering students the opportunity to develop a higher level of expertise. It is often the degree of choice for those who intend to pursue graduate studies or attend other professional schools. It allows time for concentrated work within a specific art discipline: Graphic Design, Multimedia, Photography and Traditional Arts. The major consists of 100-102 units; the B.F.A. requires 180-183 units.

The department also offers a Bachelor of Arts (B.A.) degree. Seven options for the B.A. degree are offered: Art History, Art Studio (general), Graphic Design, Photography, Pictorial Arts (Drawing/Printmaking/Painting), Spatial Arts (Ceramics/Sculpture), and Multimedia. The major consists of 64-86 units; the B.A. requires 180 units.

The department is also part of the Interdisciplinary Studies, M.A. degree program in Multimedia.

The Art Department offers minors in Art Studio, Art History, Photography and Multimedia. A Certificate Program in Art Museum and Gallery Studies is offered through the Division of Continuing and International Education.

Student Learning Outcomes

Students graduating with a B.A. or B.F.A. in Art from Cal State East Bay will be able to:

1. think creatively from the expression of an idea to the completion of a work of art;

2. apply art fundamentals successfully;
3. demonstrate an awareness of the history and context of art in relation to contemporary topics and social, political and cultural issues;
4. communicate an understanding for the use of an art medium for expression; and
5. communicate and apply technical proficiency in areas appropriate to their degree option to produce a cohesive body of work.

Career Possibilities

- Animator
- Artist
- Art Critic
- Art Educator
- Art Historian
- Arts Administrator
- Ceramicist
- Graphic Artist/Designer
- Multimedia Developer
- Museum/Gallery Curator
- Painter
- Photographer/Photojournalist
- Printmaker
- Sculptor
- Video Producer
- Web Developer

Features

- State of the Art Electronic Media Facilities
- 100,000 slides in the Department Visual Resource Library
- Three fully equipped Painting and Drawing studio spaces
- 3000 square foot machine shop which is fully equipped and professionally staffed
- Sculpture and Ceramic studios and a large outdoor working space
- Printmaking facility
- Excellent Photography facilities
- 2000 square foot University Art Gallery with a year round program of changing exhibits
- Video Art Collection of historical and contemporary art videos
- Student Art Gallery for solo or group Advanced Student Exhibitions

Preparation

For Advanced Placement course equivalents, see the Registration chapter.

Grade Requirement

Art majors must receive a grade of C- or better in each course used to satisfy a major requirement.

Admission and Degree Requirements

Applicants must meet university requirements for admission and must first be admitted to the B.A. degree program. In addition, they must meet the following requirements to apply for admission to the B.F.A. program:

1. Complete 30 units of Studio Art with a grade point average of 3.5 or better.
2. Submit a portfolio of work to the faculty B.F.A. committee along with a short statement summarizing their reasons for applying. Application reviews will be held once a year for admission the following year.
3. Maintain a minimum 3.5 GPA in all Art classes while in the program.
4. Prepare and install a final exhibition of their work in either the Art Department Galleries or outside exhibition spaces (or a portfolio for Electronic Art students) to be reviewed by the Art Department faculty to determine the candidate's professional competence in his/her area of concentration.

Note: Requirements are subject to change, so consult your advisor in the Department of Art for clarification and interpretation of your major requirements.

Major Requirements (B.F.A.) 100-102 units

The B.F.A. degree allows time for concentrated work within a specific art discipline: Art, Graphic Design Option, B.F.A., Art, Multimedia Option, B.F.A., Art, Photography Option, B.F.A. and Art, Traditional Arts Option, B.F.A. The B.F.A. requires 180-182 units.

- The core major consists of 20 units;
- the Graphic Design Option consists of 82 units;
- the Multimedia Option consists of 82 units;
- the Photography Option consists of 80 units;
- the Traditional Arts Option consists of 82 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Lower Division Core (8 units)

The following are required lower division courses for all the B.F.A. options:

- ART 1020 - The Creative Process *Units: 4*
- ART 1113 - Drawing I *Units: 4*

Upper Division Core (12 units)

The following are required upper division courses for all the B.F.A. options:

- ART 3035 - Modern Art *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*
- ART 4071 - Contemporary Art *Units: 4 (Photography option majors may substitute with ART 4621 History of Photography Since 1960).*

Option Requirements

To satisfy the Art B.F.A. additional courses in a concentration (option) are required. Choose one from the following 4 options:

- Art, Graphic Design Option, B.F.A.

- Art, Multimedia Option, B.F.A.
- Art, Photography Option, B.F.A.
- Art, Traditional Arts Option, B.F.A.

Graphic Design Option (82 units)

Required Courses

Fifty-eight (58) units required:

- ART 2025 - Basics of New Media *Units: 4*
- ART 2630 - Digital Photography I *Units: 4*
- ART 2805 - Computers and Print *Units: 4*
- ART 2810 - Principles of Design *Units: 4*
- ART 2830 - Web Design *Units: 4*
- ART 3144 - Drawing Lab *Units: 2 (take three times for 6 units)*
- ART 3400 - History of Art and Technology *Units: 4*
- ART 3810 - Graphic Design I *Units: 4*
- ART 3815 - Typography *Units: 4*
- ART 3830 - Digital Imaging *Units: 4*
- ART 3855 - Graphic Design II *Units: 4*
- ART 3860 - Production Design for Print and Screen *Units: 4*
- ART 3870 - Web Authoring *Units: 4*
- ART 4060 - History of Graphic Design *Units: 4*

Elective Courses

Sixteen (16) units of upper division studio art electives by advisement.

Capstone Requirements

Eight (8) units of capstone courses required:

- ART 4230 - Graphic Design Senior Project *Units: 4*
- ART 4740 - Professional Practices *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Art, Multimedia Option, B.F.A.

Department & Faculty Information

Art (B.F.A.) 180-182 units

Program Description

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in use of art materials and specific arts processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about art-making. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, a guest lecturer series, and field trips to museums, galleries and artists' studios.

The B.F.A. degree is a professional degree offering students the opportunity to develop a higher level of expertise. It is often the degree of choice for those who intend to pursue graduate studies or attend other professional schools. It allows time for concentrated work within a specific art discipline: Graphic Design, Multimedia, Photography and Traditional Arts. The major consists of 100-102 units; the B.F.A. requires 180-183 units.

The department also offers a Bachelor of Arts (B.A.) degree. Seven options for the B.A. degree are offered: Art History, Art Studio (general), Graphic Design, Photography, Pictorial Arts (Drawing/Printmaking/Painting), Spatial Arts (Ceramics/Sculpture), and Multimedia. The major consists of 64-86 units; the B.A. requires 180 units.

The department is also part of the Interdisciplinary Studies, M.A. degree program in Multimedia.

The Art Department offers minors in Art Studio, Art History, Photography and Multimedia. A Certificate Program in Art Museum and Gallery Studies is offered through the Division of Continuing and International Education.

Student Learning Outcomes

Students graduating with a B.A. or B.F.A. in Art from Cal State East Bay will be able to:

1. think creatively from the expression of an idea to the completion of a work of art;
2. apply art fundamentals successfully;
3. demonstrate an awareness of the history and context of art in relation to contemporary topics and social, political and cultural issues;
4. communicate an understanding for the use of an art medium for expression; and
5. communicate and apply technical proficiency in areas appropriate to their degree option to produce a cohesive body of work.

Career Possibilities

- Animator

- Artist
- Art Critic
- Art Educator
- Art Historian
- Arts Administrator
- Ceramicist
- Graphic Artist/Designer
- Multimedia Developer
- Museum/Gallery Curator
- Painter
- Photographer/Photojournalist
- Printmaker
- Sculptor
- Video Producer
- Web Developer

Features

- State of the Art Electronic Media Facilities
- 100,000 slides in the Department Visual Resource Library
- Three fully equipped Painting and Drawing studio spaces
- 3000 square foot machine shop which is fully equipped and professionally staffed
- Sculpture and Ceramic studios and a large outdoor working space
- Printmaking facility
- Excellent Photography facilities
- 2000 square foot University Art Gallery with a year round program of changing exhibits
- Video Art Collection of historical and contemporary art videos
- Student Art Gallery for solo or group Advanced Student Exhibitions

Preparation

For Advanced Placement course equivalents, see the Registration chapter.

Grade Requirement

Art majors must receive a grade of C- or better in each course used to satisfy a major requirement.

Admission and Degree Requirements

Applicants must meet university requirements for admission and must first be admitted to the B.A. degree program. In addition, they must meet the following requirements to apply for admission to the B.F.A. program:

1. Complete 30 units of Studio Art with a grade point average of 3.5 or better.
2. Submit a portfolio of work to the faculty B.F.A. committee along with a short statement summarizing their reasons for applying. Application reviews will be held once a year for admission the following year.
3. Maintain a minimum 3.5 GPA in all Art classes while in the program.

4. Prepare and install a final exhibition of their work in either the Art Department Galleries or outside exhibition spaces (or a portfolio for Electronic Art students) to be reviewed by the Art Department faculty to determine the candidate's professional competence in his/her area of concentration.

Note: Requirements are subject to change, so consult your advisor in the Department of Art for clarification and interpretation of your major requirements.

Major Requirements (B.F.A.) 100-102 units

The B.F.A. degree allows time for concentrated work within a specific art discipline: Art, Graphic Design Option, B.F.A., Art, Multimedia Option, B.F.A., Art, Photography Option, B.F.A. and Art, Traditional Arts Option, B.F.A. The B.F.A. requires 180-182 units.

- The core major consists of 20 units;
- the Graphic Design Option consists of 82 units;
- the Multimedia Option consists of 82 units;
- the Photography Option consists of 80 units;
- the Traditional Arts Option consists of 82 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Lower Division Core (8 units)

The following are required lower division courses for all the B.F.A. options:

- ART 1020 - The Creative Process *Units: 4*
- ART 1113 - Drawing I *Units: 4*

Upper Division Core (12 units)

The following are required upper division courses for all the B.F.A. options:

- ART 3035 - Modern Art *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*
- ART 4071 - Contemporary Art *Units: 4 (Photography option majors may substitute with ART 4621 History of Photography Since 1960).*

Option Requirements

To satisfy the Art B.F.A. additional courses in a concentration (option) are required. Choose one from the following 4 options:

- Art, Graphic Design Option, B.F.A.
- Art, Multimedia Option, B.F.A.
- Art, Photography Option, B.F.A.
- Art, Traditional Arts Option, B.F.A.

Multimedia Option (82 units)

Required Courses

Fifty-eight (58) units required:

Select 4 units from the following:

- ART 1114 - Painting I *Units: 4*
- ART 1115 - Printmaking I *Units: 4*
- ART 1116 - Introduction to Sculpture *Units: 4*

And the following 54 units:

- ART 2025 - Basics of New Media *Units: 4*
- ART 2630 - Digital Photography I *Units: 4*
- ART 2810 - Principles of Design *Units: 4*
- ART 2830 - Web Design *Units: 4*
- ART 3144 - Drawing Lab *Units: 2 (take 3 times for 6 units)*
- ART 3400 - History of Art and Technology *Units: 4*
- ART 3800 - Animation *Units: 4*
- ART 3820 - Digital Video *Units: 4*
- ART 3825 - Motion Graphics *Units: 4*
- ART 3830 - Digital Imaging *Units: 4*
- ART 3870 - Web Authoring *Units: 4*
- ART 4070 - Currents in New Media *Units: 4*
- ART 4200 - Interactive Authoring *Units: 4*

Elective Courses

Sixteen (16) units of upper division studio art electives by advisement.

Capstone Requirements

Eight (8) units of capstone courses required:

- ART 4220 - Multimedia Senior Project *Units: 4*
- ART 4740 - Professional Practices *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Art, Photography Option, B.F.A.

Department & Faculty Information

Art (B.F.A.) 180-182 units

Program Description

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in use of art materials and specific arts processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about art-making. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, a guest lecturer series, and field trips to museums, galleries and artists' studios.

The B.F.A. degree is a professional degree offering students the opportunity to develop a higher level of expertise. It is often the degree of choice for those who intend to pursue graduate studies or attend other professional schools. It allows time for concentrated work within a specific art discipline: Graphic Design, Multimedia, Photography and Traditional Arts. The major consists of 100-102 units; the B.F.A. requires 180-183 units.

The department also offers a Bachelor of Arts (B.A.) degree. Seven options for the B.A. degree are offered: Art History, Art Studio (general), Graphic Design, Photography, Pictorial Arts (Drawing/Printmaking/Painting), Spatial Arts (Ceramics/Sculpture), and Multimedia. The major consists of 64-86 units; the B.A. requires 180 units.

The department is also part of the Interdisciplinary Studies, M.A. degree program in Multimedia.

The Art Department offers minors in Art Studio, Art History, Photography and Multimedia. A Certificate Program in Art Museum and Gallery Studies is offered through the Division of Continuing and International Education.

Student Learning Outcomes

Students graduating with a B.A. or B.F.A. in Art from Cal State East Bay will be able to:

1. think creatively from the expression of an idea to the completion of a work of art;
2. apply art fundamentals successfully;
3. demonstrate an awareness of the history and context of art in relation to contemporary topics and social, political and cultural issues;
4. communicate an understanding for the use of an art medium for expression; and
5. communicate and apply technical proficiency in areas appropriate to their degree option to produce a cohesive body of work.

Career Possibilities

- Animator

- Artist
- Art Critic
- Art Educator
- Art Historian
- Arts Administrator
- Ceramicist
- Graphic Artist/Designer
- Multimedia Developer
- Museum/Gallery Curator
- Painter
- Photographer/Photojournalist
- Printmaker
- Sculptor
- Video Producer
- Web Developer

Features

- State of the Art Electronic Media Facilities
- 100,000 slides in the Department Visual Resource Library
- Three fully equipped Painting and Drawing studio spaces
- 3000 square foot machine shop which is fully equipped and professionally staffed
- Sculpture and Ceramic studios and a large outdoor working space
- Printmaking facility
- Excellent Photography facilities
- 2000 square foot University Art Gallery with a year round program of changing exhibits
- Video Art Collection of historical and contemporary art videos
- Student Art Gallery for solo or group Advanced Student Exhibitions

Preparation

For Advanced Placement course equivalents, see the Registration chapter.

Grade Requirement

Art majors must receive a grade of C- or better in each course used to satisfy a major requirement.

Admission and Degree Requirements

Applicants must meet university requirements for admission and must first be admitted to the B.A. degree program. In addition, they must meet the following requirements to apply for admission to the B.F.A. program:

1. Complete 30 units of Studio Art with a grade point average of 3.5 or better.
2. Submit a portfolio of work to the faculty B.F.A. committee along with a short statement summarizing their reasons for applying. Application reviews will be held once a year for admission the following year.
3. Maintain a minimum 3.5 GPA in all Art classes while in the program.

4. Prepare and install a final exhibition of their work in either the Art Department Galleries or outside exhibition spaces (or a portfolio for Electronic Art students) to be reviewed by the Art Department faculty to determine the candidate's professional competence in his/her area of concentration.
Note: Requirements are subject to change, so consult your advisor in the Department of Art for clarification and interpretation of your major requirements.

Major Requirements (B.F.A.) 100-102 units

The B.F.A. degree allows time for concentrated work within a specific art discipline: Art, Graphic Design Option, B.F.A., Art, Multimedia Option, B.F.A., Art, Photography Option, B.F.A. and Art, Traditional Arts Option, B.F.A. The B.F.A. requires 180-182 units.

- The core major consists of 20 units;
- the Graphic Design Option consists of 82 units;
- the Multimedia Option consists of 82 units;
- the Photography Option consists of 80 units;
- the Traditional Arts Option consists of 82 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Lower Division Core (8 units)

The following are required lower division courses for all the B.F.A. options:

- ART 1020 - The Creative Process *Units: 4*
- ART 1113 - Drawing I *Units: 4*

Upper Division Core (12 units)

The following are required upper division courses for all the B.F.A. options:

- ART 3035 - Modern Art *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*
- ART 4071 - Contemporary Art *Units: 4 (Photography option majors may substitute with ART 4621 History of Photography Since 1960).*

Option Requirements

To satisfy the Art B.F.A. additional courses in a concentration (option) are required. Choose one from the following 4 options:

- Art, Graphic Design Option, B.F.A.
- Art, Multimedia Option, B.F.A.
- Art, Photography Option, B.F.A.
- Art, Traditional Arts Option, B.F.A.

Photography Option

Required Courses (80 units)

Sixty (60) units required:

Select 4 units from the following:

- ART 1112 - Ceramics I *Units: 4*
- ART 1114 - Painting I *Units: 4*
- ART 1115 - Printmaking I *Units: 4*
- ART 1116 - Introduction to Sculpture *Units: 4*
- ART 1121 - Introduction to Bookmaking *Units: 4*

And the following 56 units:

- ART 2025 - Basics of New Media *Units: 4*
- ART 2630 - Digital Photography I *Units: 4*
- ART 2810 - Principles of Design *Units: 4*
- ART 2830 - Web Design *Units: 4*
- ART 3400 - History of Art and Technology *Units: 4*
- ART 3670 - Introduction to Studio Lighting *Units: 4*
- ART 3680 - Photography Career Preparation *Units: 4*
- ART 3830 - Digital Imaging *Units: 4*
- ART 4600 - Image and Idea *Units: 4 or cross-listed COMM 4600.*
- ART 4620 - History of Photography *Units: 4 or cross-listed COMM 4620.*
- ART 4645 - Creative Photography *Units: 4*
- ART 4745 - Senior Project in Photography *Units: 4*
- ART 4900 - Independent Study *Units: 1-4 (4 units required)*
- One upper division art history course

Elective Courses

Students to select 20 units from the following by advisement:

- ART 2702 - Black and White Photography II *Units: 4*
- ART 3440 - Visual Literacy *Units: 2*
- ART 3620 - Alternative Processes in Photography *Units: 4*
- ART 3630 - Digital Photography III *Units: 4 or cross-listed COMM 3630.*
- ART 3655 - Advanced Landscape Photography *Units: 4*
- ART 3660 - Portrait Photography *Units: 4 or cross-listed COMM 3660.*
- ART 3661 - Advanced Portrait Photography *Units: 4*
- ART 3671 - Advanced Studio Lighting *Units: 4*
- ART 3810 - Graphic Design I *Units: 4*
- ART 3820 - Digital Video *Units: 4*
- ART 3870 - Web Authoring *Units: 4*
- ART 4621 - History of Photography Since 1960 *Units: 4*
- ART 4900 - Independent Study *Units: 1-4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Art, Traditional Arts Option, B.F.A.

Department & Faculty Information

Art (B.F.A.) 180-182 units

Program Description

Courses in the Department of Art develop our students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in use of art materials and specific arts processes enables students to create original artworks reflecting their evolving vision. Our program also fosters a broad cultural awareness of the visual arts in society. Graduating majors should be able to clearly express their ideas about art-making. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, a guest lecturer series, and field trips to museums, galleries and artists' studios.

The B.F.A. degree is a professional degree offering students the opportunity to develop a higher level of expertise. It is often the degree of choice for those who intend to pursue graduate studies or attend other professional schools. It allows time for concentrated work within a specific art discipline: Graphic Design, Multimedia, Photography and Traditional Arts. The major consists of 100-102 units; the B.F.A. requires 180-183 units.

The department also offers a Bachelor of Arts (B.A.) degree. Seven options for the B.A. degree are offered: Art History, Art Studio (general), Graphic Design, Photography, Pictorial Arts (Drawing/Printmaking/Painting), Spatial Arts (Ceramics/Sculpture), and Multimedia. The major consists of 64-86 units; the B.A. requires 180 units.

The department is also part of the Interdisciplinary Studies, M.A. degree program in Multimedia.

The Art Department offers minors in Art Studio, Art History, Photography and Multimedia. A Certificate Program in Art Museum and Gallery Studies is offered through the Division of Continuing and International Education.

Student Learning Outcomes

Students graduating with a B.A. or B.F.A. in Art from Cal State East Bay will be able to:

1. think creatively from the expression of an idea to the completion of a work of art;
2. apply art fundamentals successfully;

3. demonstrate an awareness of the history and context of art in relation to contemporary topics and social, political and cultural issues;
4. communicate an understanding for the use of an art medium for expression; and
5. communicate and apply technical proficiency in areas appropriate to their degree option to produce a cohesive body of work.

Career Possibilities

- Animator
- Artist
- Art Critic
- Art Educator
- Art Historian
- Arts Administrator
- Ceramicist
- Graphic Artist/Designer
- Multimedia Developer
- Museum/Gallery Curator
- Painter
- Photographer/Photojournalist
- Printmaker
- Sculptor
- Video Producer
- Web Developer

Features

- State of the Art Electronic Media Facilities
- 100,000 slides in the Department Visual Resource Library
- Three fully equipped Painting and Drawing studio spaces
- 3000 square foot machine shop which is fully equipped and professionally staffed
- Sculpture and Ceramic studios and a large outdoor working space
- Printmaking facility
- Excellent Photography facilities
- 2000 square foot University Art Gallery with a year round program of changing exhibits
- Video Art Collection of historical and contemporary art videos
- Student Art Gallery for solo or group Advanced Student Exhibitions

Preparation

For Advanced Placement course equivalents, see the Registration chapter.

Grade Requirement

Art majors must receive a grade of C- or better in each course used to satisfy a major requirement.

Admission and Degree Requirements

Applicants must meet university requirements for admission and must first be admitted to the B.A. degree program. In addition, they must meet the following requirements to apply for admission to the B.F.A. program:

1. Complete 30 units of Studio Art with a grade point average of 3.5 or better.
2. Submit a portfolio of work to the faculty B.F.A. committee along with a short statement summarizing their reasons for applying. Application reviews will be held once a year for admission the following year.
3. Maintain a minimum 3.5 GPA in all Art classes while in the program.
4. Prepare and install a final exhibition of their work in either the Art Department Galleries or outside exhibition spaces (or a portfolio for Electronic Art students) to be reviewed by the Art Department faculty to determine the candidate's professional competence in his/her area of concentration.

Note: Requirements are subject to change, so consult your advisor in the Department of Art for clarification and interpretation of your major requirements.

Major Requirements (B.F.A.) 100-102 units

The B.F.A. degree allows time for concentrated work within a specific art discipline: Art, Graphic Design Option, B.F.A., Art, Multimedia Option, B.F.A., Art, Photography Option, B.F.A. and Art, Traditional Arts Option, B.F.A. The B.F.A. requires 180-182 units.

- The core major consists of 20 units;
- the Graphic Design Option consists of 82 units;
- the Multimedia Option consists of 82 units;
- the Photography Option consists of 80 units;
- the Traditional Arts Option consists of 82 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Lower Division Core (8 units)

The following are required lower division courses for all the B.F.A. options:

- ART 1020 - The Creative Process *Units: 4*
- ART 1113 - Drawing I *Units: 4*

Upper Division Core (12 units)

The following are required upper division courses for all the B.F.A. options:

- ART 3035 - Modern Art *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*
- ART 4071 - Contemporary Art *Units: 4 (Photography option majors may substitute with ART 4621 History of Photography Since 1960).*

Option Requirements

To satisfy the Art B.F.A. additional courses in a concentration (option) are required. Choose one from the following 4 options:

- Art, Graphic Design Option, B.F.A.

- Art, Multimedia Option, B.F.A.
- Art, Photography Option, B.F.A.
- Art, Traditional Arts Option, B.F.A.

Traditional Arts Option (82 units)

Required Courses

Fourteen (14) units required:

- ART 3430 - Junior/Senior Seminar *Units: 2*
- ART 3440 - Visual Literacy *Units: 2*
- ART 4710 - Senior Thesis *Units: 2*
- ART 4720 - Senior Seminar *Units: 2*
- ART 4730 - Senior Portfolio *Units: 2*
- One additional upper division art history course.

Elective Courses

Sixty-eight (68) elective units are required. Courses selected from the following by advisement based upon student's choice of specialty area:

- ART 1112 - Ceramics I *Units: 4*
- ART 1114 - Painting I *Units: 4*
- ART 1115 - Printmaking I *Units: 4*
- ART 1116 - Introduction to Sculpture *Units: 4*
- ART 3141 - Drawing II *Units: 4*
- ART 3142 - Figure Drawing *Units: 4*
- ART 3212 - Painting II *Units: 4*
- ART 3213 - Painting III *Units: 4*
- ART 3316 - Advanced Sculpture *Units: 4*
- ART 3317 - Workshop in Spatial Arts *Units: 4*
- ART 3430 - Junior/Senior Seminar *Units: 2*
- ART 3440 - Visual Literacy *Units: 2*
- ART 3512 - Ceramics II *Units: 4*
- ART 3513 - Ceramics III *Units: 4*
- ART 3600 - Digital Photography II *Units: 4*
- ART 4143 - Advanced Drawing *Units: 4*
- ART 4857 - Advanced Printmaking *Units: 4*
- ART 4900 - Independent Study *Units: 1-4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Arts

Multimedia, M.A.

Department & Faculty Information

Multimedia (M.A) 52 units

Program Description

The Multimedia master's degree is a unique interdisciplinary program that focuses on the creative and technical aspects of new technology to create, control, deliver, and present meaningful content in a variety of interactive forms. This degree draws upon elements from a number of fields, including art, computer science, education, business, and telecommunications.

The Multimedia graduate program mirrors real-world conditions by emphasizing teamwork and project oriented goals. Students learn the skills needed to adapt quickly to new environments, a valuable asset for any profession. Because multimedia is a rapidly developing and rapidly changing field, the program focuses as much on the enduring creative processes as on the transient technology.

The Multimedia master's is a two-year degree program. Most coursework is offered in the evening. During the first year, students develop a theoretical foundation in multimedia technology, enhance their creative skills and learn to work effectively in teams. During the second year, small teams of students with various backgrounds and talents create innovative, professional-quality, interactive multimedia projects. Ideas for group projects can originate from students, faculty, or external sources. Many of our student projects have won national and international awards.

Students in the Multimedia graduate program enjoy a number of benefits including small student-teacher ratios and a dedicated interdisciplinary faculty. Thesis project students have 24-hour access to their own professional quality multimedia production studio. These facilities are well equipped and maintained with the latest technology.

Student Learning Outcomes

Students graduating with an M.A. in Multimedia from Cal State East Bay will be able to:

1. Demonstrate competency in digital imaging, and interactive, web, video, and audio production;
2. Research and critically assess new developments in the field of multimedia at both the cultural and the technical level;

3. Show an understanding of the effects of media and the evolution of information across a variety of media types; and
4. Produce an interactive thesis project that demonstrates a novel and/or creative use of a single or combination of interactive technologies, with written documentation of a professional standard, by working within a collaborative team.

Career Opportunities

The Multimedia graduate program prepares students for successful careers in the new and thriving multimedia industry. As the only multimedia master's program in the state, it leads the way in training future multimedia producers and artists. Graduates can seek employment in positions where they work in teams or individually to produce artistic and commercial multimedia materials. Potential places of employment include film and video studios, graphic and exhibition design studios, production and post-production houses, publishers, corporate training and communication groups, support groups for scientific visualization, support groups for business presentation, and support groups for educational institutions.

Added career-oriented features of the Multimedia graduate program are its location in the San Francisco Bay Area, home to the hottest interactive digital media industry in the world.

Faculty

The Multimedia Graduate Program is administered by a committee comprised of faculty members from the Departments of Art and Music from within the College of Letters, Arts, and Social Sciences.

Admission

Applicants are individually evaluated for admission to the Multimedia graduate program using the following criteria:

- A minimum GPA of 3.0 in the last 90 units of undergraduate work
- A portfolio of work reflecting the applicant's talents and abilities in digital and interactive media
- Evidence of professional experience in related fields

In addition to submitting a university application and application fee to the Admissions Office, applicants must complete a departmental application and submit it along with a statement of purpose, resume, work sample, two reference letters, and copies of academic transcripts. Applicants are selected by an admissions panel of the Multimedia Program Committee.

Students are admitted for the Fall quarter only. See the Multimedia Graduate Program website at multimedia.csueastbay.edu for the application deadline. No entrance exam is required for admission; however, international students must take the TOEFL exam and pass with a score of 213 or better.

Applicants who have not completed all prerequisite requirements may be placed in "Conditionally Classified Graduate" status if they can demonstrate the ability to complete these requirements.

Requirements for Continuation

Once admitted to the program, students must satisfy further requirements, e.g., they must satisfy the University Writing Skills Requirement. Students who have completed all the prerequisite requirements and the University Writing Skills Requirement are given "Classified Graduate" status. For information on meeting the University Writing Skills Requirement, see the Testing Office website at

www.csueastbay.edu/testing or call 510.885.3661. Advancement to Candidacy is a university requirement for graduation. A student with "Classified Graduate" status may apply for Advancement to Candidacy after completing at least 20 quarter units towards the master's degree with a grade of "B" or higher in all classes. Before being Advanced to Candidacy, a student's complete course of study and progress must be approved by the Multimedia Program Committee.

Curricular Requirements

Required Courses

The following 44 units are required:

- MM 6100 - Tech I: Principles of Digital Multimedia *Units: 4*
- MM 6101 - Multimedia Seminar *Units: 4*
- MM 6102 - Application of Learning Theories to Multimedia Design *Units: 4*
- MM 6103 - Business Basics in Multimedia *Units: 4*
- MM 6110 - Tech II: Multimedia Network and Hardware Development *Units: 4*
- MM 6120 - Tech III: Multimedia Software Development *Units: 4*
- MM 6805 - Forum *Units: 1*
- MM 6860 - Introduction to Multimedia Project Development *Units: 4*
- MM 6870 - Multimedia Development I *Units: 4*
- MM 6880 - Multimedia Development II *Units: 4*
- MM 6899 - Project *Units: 4*

Elective Courses

Select eight (8) units of electives under advisement of graduate coordinator.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Art History Minor

Department & Faculty Information

Minor Requirements (36 units)

- ART 1020 - The Creative Process *Units: 4*
- ART 2630 - Digital Photography I *Units: 4*
- ART 3035 - Modern Art *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*
- Five 3000/4000-level art history courses (20 units total) selected with an academic advisor.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Art Studio Minor

Department & Faculty Information

Minor Requirements (36 units)

- ART 1020 - The Creative Process *Units: 4*
- ART 1113 - Drawing I *Units: 4*
- ART 3411 - Advanced Survey of World Art *Units: 4*
- Two lower division art studio courses selected with an advisor *Units: 8*
- Twelve units of upper division art studio courses selected with an advisor *Units: 12*
- One upper division Art History course *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Interactive Sculpture Minor

Department & Faculty Information

Minor Requirements (28 units)

- ART 1116 - Introduction to Sculpture *Units: 4*
- ART 3330 - Electronics for Sculpture *Units: 4*
- ART 3400 - History of Art and Technology *Units: 4*
- ART 4370 - Human and Machine Performance *Units: 4*
- Select 4 units of coursework covering tangible digital environments, with consent of department *Units: 4*
- Select 4 units of coursework covering interactive sculpture, with consent of department *Units: 4*
- Select 4 units of upper division coursework covering fabrication for sculpture, with consent of department *Units: 4*

Note:

Students who have taken PHYS 3280 - Electronics , or CS 3432 - Digital Design Lab, may substitute ART 4070 - Currents in New Media for ART 3330.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Multimedia Minor

Department & Faculty Information

Minor Requirements (36 units)

- ART 2025 - Basics of New Media *Units: 4*
- ART 2630 - Digital Photography I *Units: 4*
- ART 2810 - Principles of Design *Units: 4*
- ART 2830 - Web Design *Units: 4*
- ART 3400 - History of Art and Technology *Units: 4*
- ART 3800 - Animation *Units: 4*

- ART 3820 - Digital Video *Units: 4*
- ART 3830 - Digital Imaging *Units: 4*
- ART 3870 - Web Authoring *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Photography Minor

Department & Faculty Information

Minor Requirements (36 units)

Core Courses (20 units)

- ART 2025 - Basics of New Media *Units: 4*
- ART 2630 - Digital Photography I *Units: 4*
- ART 3830 - Digital Imaging *Units: 4*
- ART 4600 - Image and Idea *Units: 4*
or crosslisted COMM 4600.
- COMM 4620 - History of Photography *Units: 4*
or crosslisted ART 4620.

Electives (16 units)

Selected with an advisor from the following list:

- ART 2702 - Black and White Photography II *Units: 4*
- ART 2810 - Principles of Design *Units: 4*
- ART 2830 - Web Design *Units: 4*
- ART 3620 - Alternative Processes in Photography *Units: 4*
- ART 3630 - Digital Photography III *Units: 4*
or crosslisted COMM 3630.
- ART 3640 - Special Topic in Photography *Units: 4*
- ART 3654 - Landscape Photography *Units: 4*

- ART 3660 - Portrait Photography *Units: 4*
or crosslisted COMM 3660.
- ART 3661 - Advanced Portrait Photography *Units: 4*
- ART 3670 - Introduction to Studio Lighting *Units: 4*
or crosslisted COMM 3670.
- ART 3671 - Advanced Studio Lighting *Units: 4*
or crosslisted COMM 3671.
- ART 3680 - Photography Career Preparation *Units: 4*
or crosslisted COMM 3680.
- ART 4621 - History of Photography Since 1960 *Units: 4*
- ART 4645 - Creative Photography *Units: 4*
- ART 4745 - Senior Project in Photography *Units: 4*
- ART 4900 - Independent Study *Units: 1-4*
- COMM 3100 - Introduction to Professional Video Production *Units: 4*
- COMM 3220 - Media Workshop: Print *Units: 2*
- COMM 3340 - Graphic Communication *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Biological Sciences

The Department Office is located on the 4th Floor of the North Science building, Room 429.

Open 8:00 a.m. - 5:00 p.m., Monday - Thursday, and 7:00 a.m. - 4:00 p.m. on Fridays.

Dept. Phone: (510) 885-3471

Faculty

Professors

Christoph W. Baysdorfer, Ph.D. University of California, Berkeley

Donald A. Gailey (Chair), Ph.D. University of California, Los Angeles

Michael S. Hedrick, Ph.D. University of British Columbia (Canada)

Caron Y. Inouye, Ph.D. University of California, Los Angeles

Christopher L. Kitting, Ph.D. Stanford University

Carol R. Lauzon, Ph.D. University of Vermont

Maria C. Nieto, Ph.D. University of California, Berkeley

Claudia Uhde-Stone, Ph.D. University of Bielefeld (Germany)

Associate Professors

Maria E. Gallegos, Ph.D. University of Wisconsin, Madison

Kenneth Curr, Ph.D. Albert Einstein College of Medicine, New York

James Murray, Ph.D. University of Washington

Erica L. Wildy, Ph.D. Oregon State University

Assistant Professors

Ana Maria Almeida, Ph.D. University of California, Berkeley

Tyler Evans, Ph.D. University of Saskatchewan (Canada)

Nazzy Pakpour, Ph.D. University of Pennsylvania

Brian Perry, Ph.D. Harvard University

Graduate Coordinator: Maria C. Nieto

Mission Statement

The mission of the Department of Biological Sciences is to provide our students with the most current biological information possible, coupled with up-to-date laboratory and field experiences. We feel that a well educated and trained biologist will contribute to our society and will return this knowledge to the community. The diverse profile of our students propels us to offer a variety of courses and laboratory and field work in the life sciences. Our program is designed for students with specific degree objectives in mind, for students seeking technical training, and for students with a general interest in biology. Our undergraduate programs prepare students for both graduate careers and the health professions. Likewise, our majors may enter specialized areas leading to laboratory, administrative, field, or teaching careers. Our graduates are found throughout the work force: academic institutions, clinical labs, biotechnology, wildlife management, industry, botanical gardens, hospitals, private practices, and education.

Moss Landing Marine Labs		Graduate Opportunities and Financial Resources	
American Institute of Biological Sciences	Scholarships & Internships	Council on Ocean Affairs, Science & Technology	

Bachelor of Arts

Biological Science, Biology Education Option, B.A.

Department & Faculty Information

Biological Science (B.A.) 180 units

Program Description

Biology is concerned with living matter in all its forms, responses, and interactions. It deals with the study of anything that has been or is alive: microbes, all plants, and all animals, including humans. The science of biology includes a large number of highly integrated sub-disciplines such as microbiology, genetics, ecology, evolution, physiology, systematics, and behavior. Biologists must draw upon a wide variety of academic disciplines to make observations and draw conclusions, and well-trained biologists have solid backgrounds in chemistry, mathematics, computer science, statistics, physics, and the humanities, as required by graduate programs and professional schools, to meet the demands of professions in the life sciences.

The Department of Biological Sciences offers a diversified curriculum in the life sciences. Courses are designed for biology majors with specific degree objectives, for students seeking applied technical training, and for non-major students with general interest in biological subjects. Undergraduate programs will prepare students for both graduate work and for a diversity of careers. Biology majors may enter specialized or general careers in life science and find themselves working in laboratories, offices, the field, farms, administrative posts, academic institutions, industry, government agencies, private foundations, botanic gardens and zoos, wildlife preserves, and elsewhere.

Student Learning Outcomes

Students graduating with a B.S. or B.A. in Biological Science from Cal State East Bay will be able to:

1. demonstrate how evolutionary processes give rise to the diversity and unity of life, from genomes to ecosystems;

2. explain the relationship between structure and function across all levels of biological organization, from ions to ecosystems;
3. clearly communicate biological information in a variety of formats (written, oral, graphical, computational) using a style appropriate for the intended audience;
4. apply methods of scientific inquiry-specifically, students will be able to formulate testable hypotheses, collect and analyze data, and report conclusions;
5. gather, interpret, and evaluate published scientific information.

Career Possibilities

- Administrator
- Biotechnologist
- Botanist
- Cell Biologist
- Consultant
- Dentist
- Ecologist
- Entomologist
- Environmentalist
- Genetic Engineer
- Physiologist
- Geneticist
- Health Scientist
- Lab Assistant
- Marine Biologist
- Medical Doctor
- Medical Technologist
- Pharmacologist
- Physical Therapist
- Population Biologist
- Researcher
- Teacher
- Space Biologist
- Technical Sales
- Technical Writer
- Toxicologist
- Veterinarian
- Zoologist

Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located on Monterey Bay, and at a number of field locations throughout the San Francisco Bay Area, including the South San Francisco Bay National Wildlife Refuge Field Station, and the Garin Reserve adjacent to campus.

A program in Biomedical Laboratory Sciences is offered to qualify students for California hospital traineeships which lead to state licensure as medical technologists.

Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted 9 units of credit in place of BIOL 1001-2 and 2040 or, if student is a Biology Major, 10 units in place of BIOL 1401 and 1403. No Advanced Placement credit is given for BIOL 1402.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Major Requirements (B.A.) 90 units

The Bachelor of Arts major program should be considered by students wishing broad experience in biology as well as specialized course work tailored to their special interests. Students planning careers in education, biological interpretative work, natural history programs, health-related vocations, or seeking generalized biological training may find this program most adaptable to their needs. However, the B.A. degree major in many cases will not provide the required courses for admission to graduate or professional schools. The B.A. degree requires a minimum of 180 units.

- The core major consists of 45 units;
- the Biology Education Option consists of 45 units;
- the General Biology Option consists of 45 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Note: Requirements are subject to change, so consult your advisor in the Department of Biological Sciences for clarification and interpretation of your major requirements.

Lower Division Core (15 units)

The following core courses are required:

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*

Upper Division Core (30 units)

The following core courses are required:

- BIOL 3110 - Principles of Ecology *Units: 4*
- BIOL 3121 - Principles of Genetics *Units: 5*
- BIOL 3122 - Principles of Developmental Genetic Analysis *Units: 4*
- BIOL 3130 - Principles of Evolutionary Biology *Units: 4*
- BIOL 3151 - Principles of Animal Physiology *Units: 5*
- MATH 1304 - Calculus I *Units: 4*
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Option Requirements

The Biological Science B.A. degree requires that students must select one of the following options:

- Biological Science, Biology Education Option, B.A.
- Biological Science, General Biology Option, B.A.

Biology Education Option (45 units)

Required Courses

- BIOL 2025 - Introduction to Microbiology *Units: 5*
- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- CHEM 2301 - Survey of Organic Chemistry *Units: 4*
- CHEM 2302 - Survey of Organic Chemistry *Units: 4*
- PHYS 1700 - Elementary Physics *Units: 4*
- PHYS 1780 - Elementary Physics Laboratory *Units: 1*
- GEOL 1000 - Earth Systems Science *Units: 5*
or GEOL 1001 Introduction to the Earth Sciences (4) and GEOL 1002 Earth Sciences Laboratory (1 units)

Teacher Education

- PHIL 3335 - Science, Technology and Values *Units: 4*
- TED 3001 - Exploring Education *Units: 3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Biological Science, General Biology Option, B.A.

Department & Faculty Information

Biological Science (B.A.) 180 units

Program Description

Biology is concerned with living matter in all its forms, responses, and interactions. It deals with the study of anything that has been or is alive: microbes, all plants, and all animals, including humans. The science of biology includes a large number of highly integrated sub-disciplines such as microbiology, genetics, ecology, evolution, physiology, systematics, and behavior. Biologists must draw upon a wide variety of academic disciplines to make observations and draw conclusions, and well-trained biologists have solid backgrounds in chemistry, mathematics, computer science, statistics, physics, and the humanities, as required by graduate programs and professional schools, to meet the demands of professions in the life sciences.

The Department of Biological Sciences offers a diversified curriculum in the life sciences. Courses are designed for biology majors with specific degree objectives, for students seeking applied technical training, and for non-major students with general interest in biological subjects. Undergraduate programs will prepare students for both graduate work and for a diversity of careers. Biology majors may enter specialized or general careers in life science and find themselves working in laboratories, offices, the field, farms, administrative posts, academic institutions, industry, government agencies, private foundations, botanic gardens and zoos, wildlife preserves, and elsewhere.

Student Learning Outcomes

Students graduating with a B.S. or B.A. in Biological Science from Cal State East Bay will be able to:

1. demonstrate how evolutionary processes give rise to the diversity and unity of life, from genomes to ecosystems;
2. explain the relationship between structure and function across all levels of biological organization, from ions to ecosystems;
3. clearly communicate biological information in a variety of formats (written, oral, graphical, computational) using a style appropriate for the intended audience;
4. apply methods of scientific inquiry-specifically, students will be able to formulate testable hypotheses, collect and analyze data, and report conclusions;
5. gather, interpret, and evaluate published scientific information.

Career Possibilities

- Administrator
- Biotechnologist
- Botanist
- Cell Biologist
- Consultant
- Dentist
- Ecologist
- Entomologist
- Environmentalist
- Genetic Engineer
- Physiologist
- Geneticist
- Health Scientist
- Lab Assistant
- Marine Biologist

- Medical Doctor
- Medical Technologist
- Pharmacologist
- Physical Therapist
- Population Biologist
- Researcher
- Teacher
- Space Biologist
- Technical Sales
- Technical Writer
- Toxicologist
- Veterinarian
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Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located on Monterey Bay, and at a number of field locations throughout the San Francisco Bay Area, including the South San Francisco Bay National Wildlife Refuge Field Station, and the Garin Reserve adjacent to campus.

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Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted 9 units of credit in place of BIOL 1001-2 and 2040 or, if student is a Biology Major, 10 units in place of BIOL 1401 and 1403. No Advanced Placement credit is given for BIOL 1402.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Major Requirements (B.A.) 90 units

The Bachelor of Arts major program should be considered by students wishing broad experience in biology as well as specialized course work tailored to their special interests. Students planning careers in education, biological interpretative work, natural history programs, health-related vocations, or seeking generalized biological training may find this program most adaptable to their needs. However, the B.A. degree major in many cases will not provide the required courses for admission to graduate or professional schools. The B.A. degree requires a minimum of 180 units.

- The core major consists of 45 units;
- the Biology Education Option consists of 45 units;
- the General Biology Option consists of 45 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Note: Requirements are subject to change, so consult your advisor in the Department of Biological Sciences for clarification and interpretation of your major requirements.

Lower Division Core (15 units)

The following core courses are required:

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*

Upper Division Core (30 units)

The following core courses are required:

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- BIOL 3121 - Principles of Genetics *Units: 5*
- BIOL 3122 - Principles of Developmental Genetic Analysis *Units: 4*
- BIOL 3130 - Principles of Evolutionary Biology *Units: 4*
- BIOL 3151 - Principles of Animal Physiology *Units: 5*
- MATH 1304 - Calculus I *Units: 4*
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Option Requirements

The Biological Science B.A. degree requires that students must select one of the following options:

- Biological Science, Biology Education Option, B.A.
- Biological Science, General Biology Option, B.A.

General Biology Option (45 units)

The Option in General Biology for the B.A. Biological Science consists of 90 units. The B.A. Biological Science degree requires a total of 180 units. The University requires 72 units of GE. However, the B.A. Biological Science with the Option in General Biology can incorporate up to 16 units of GE into the major. These include:

- GE Areas B1, B3, B5 can be satisfied with CHEM 1601 and 1602
- GE Area B4 can be satisfied with MATH 1304
- GE Area C4 can be satisfied with PHIL 3151 or 3152 or 3153

Required Courses

Complete 24 units of required courses:

- CHEM 1601 - Basic Chemistry for the Health Sciences *Units: 4*
- CHEM 1602 - Basic Chemistry for the Health Sciences *Units: 4*
- CHEM 3400 - Introductory Biochemistry *Units: 4*

- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Electives

Twenty-one (21) elective units required:

1. Consultation with a faculty advisor is strongly recommended to review the suitability of this degree program for the desired professional goal.
2. Any upper division biology course can be applied, except BIOL 3020.
3. Can include a maximum of 8 units from departments outside of Biological Science but not more than one course per department.

Approved Elective Courses

Listed are approved elective courses outside of Biological Science:

- ENSC 4140 - Hazardous Waste Management *Units: 4*
- ENSC 4200 - Global Change *Units: 4*
- GEOL 3400 - General Oceanography *Units: 4*
- PHIL 3151 - Environmental Ethics *Units: 4*
- PHIL 3152 - Biomedical Ethics *Units: 4*
- PHIL 3153 - Biology and Ethics *Units: 4*

Course Descriptions

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Other Undergraduate Degree Requirements

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Bachelor of Science

Biological Science, Cell and Molecular Biology Option, B.S.

Department & Faculty Information

Biological Science (B.S.) 180-187 units

Program Description

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The Department of Biological Sciences offers a diversified curriculum in the life sciences. Courses are designed for biology majors with specific degree objectives, for students seeking applied technical training, and for non-major students with general interest in biological subjects. Undergraduate programs will prepare students for both graduate work and for a diversity of careers. Biology majors may enter specialized or general careers in life science and find themselves working in laboratories, offices, the field, farms, administrative posts, academic institutions, industry, government agencies, private foundations, botanic gardens and zoos, wildlife preserves, and elsewhere.

Student Learning Outcomes

Students graduating with a B.S. or B.A. in Biological Science from Cal State East Bay will be able to:

1. demonstrate how evolutionary processes give rise to the diversity and unity of life, from genomes to ecosystems;
2. explain the relationship between structure and function across all levels of biological organization, from ions to ecosystems;
3. clearly communicate biological information in a variety of formats (written, oral, graphical, computational) using a style appropriate for the intended audience;
4. apply methods of scientific inquiry-specifically, students will be able to formulate testable hypotheses, collect and analyze data, and report conclusions;
5. gather, interpret, and evaluate published scientific information.

Career Possibilities

- Administrator
- Biotechnologist
- Botanist
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- Dentist
- Ecologist
- Entomologist
- Environmentalist
- Genetic Engineer
- Physiologist
- Geneticist
- Health Scientist
- Lab Assistant
- Marine Biologist

- Medical Doctor
- Medical Technologist
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- Technical Sales
- Technical Writer
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Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located on Monterey Bay, and at a number of field locations throughout the San Francisco Bay Area, including the South San Francisco Bay National Wildlife Refuge Field Station, and the Garin Reserve adjacent to campus.

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Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted 9 units of credit in place of BIOL 1001-2 and 2040 or, if student is a Biology Major, 10 units in place of BIOL 1401 and 1403. No Advanced Placement credit is given for BIOL 1402.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Major Requirements (B.S.) 100-113 units

The B.S. degree should be considered by students anticipating careers in biology or the health sciences that require graduate school, professional school, or specialized training programs such as biotechnology and medical technology. All students wishing to enter medicine, dentistry, veterinary medicine, or biomedical laboratory positions should obtain a Bachelor of Science degree. Students wishing to teach in secondary schools may want to consider the B.A. degree. The B.S. degree requires a minimum of 180 units; 187 units with the Forensic Science Option.

- The core major consists of 43 units;
 - the Cell and Molecular Biology Option consists of 63 units;
 - the Ecology and Conservation Biology Option consists of 41-48 units;
 - the Forensic Science Option consists of 68-70 units;
 - the General Biology Option consists of 57 units;
 - the Microbiology/Biomedical Laboratory Sciences Option consists of 62 units;
 - the Physiology Option consists of 56-64 units.

- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*
Note: Requirements are subject to change, so consult your advisor in the Department of Biological Sciences for clarification and interpretation of your major requirements. Because the upper division requirements of the B.S. degree are not large, students also need to carefully track their progress toward the 60 upper division units required for graduation.

Biological Sciences Core (20 units)

The following core courses are required:

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- BIOL 3121 - Principles of Genetics *Units: 5*

Physical Sciences and Mathematics Core (23 units)

The following core courses are required:

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- MATH 1304 - Calculus I *Units: 4 or Students in the Cell and Molecular Biology Option; Ecology and Conservation Biology Option; Forensic Science Option; or General Biology Option may substitute MATH 1300 Trigonometry and Analytic Geometry 4 units. Note: Students should take the most advanced course for which they are qualified. Biologists continuing on to graduate work should complete MATH 1305 Calculus II as a minimum.*
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Option Requirements

The Biological Science B.S. degree requires that students must select one of following options:

- Biological Science, Cell and Molecular Biology Option, B.S.
- Biological Science, Ecology and Conservation Biology Option, B.S.
- Biological Science, Forensic Science Option, B.S.
- Biological Science, General Biology Option, B.S.
- Biological Science, Microbiology/Biomedical Laboratory Sciences Option, B.S.
- Biological Science, Physiology Option, B.S.

Cell and Molecular Biology Option (63 units)

Required Courses

Fifty-one (51) units required:

- BIOL 3122 - Principles of Developmental Genetic Analysis *Units: 4*
- BIOL 3151 - Principles of Animal Physiology *Units: 5*

- BIOL 4455 - Molecular Cell Biology *Units: 4*
- BIOL 4456 - Molecular Techniques *Units: 3*
- CHEM 3301 - Organic Chemistry *Units: 5*
- CHEM 3302 - Organic Chemistry *Units: 5*
- CHEM 3303 - Organic Chemistry *Units: 5*
- CHEM 4411 - General Biochemistry *Units: 4*
- CHEM 4412 - General Biochemistry *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Electives

A minimum of 12 units must be selected from the following:

- BIOL 3405 - Microbiology *Units: 6*
- BIOL 4430 - Immunology *Units: 4*
- BIOL 4450 - Cell Culture Techniques *Units: 4*
- BIOL 4485 - PCR, DNA Sequencing and Fragment Analysis *Units: 4*
- BIOL 4490 - Bioinformatics *Units: 4*
- CHEM 4430 - General Biochemistry Laboratory *Units: 4*

Course Descriptions

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Biological Science, Ecology and Conservation Biology Option, B.S.

Department & Faculty Information

Biological Science (B.S.) 180-187 units

Program Description

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- Genetic Engineer
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- Medical Doctor
- Medical Technologist

- Pharmacologist
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Major Requirements (B.S.) 100-113 units

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- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

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The following core courses are required:

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- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- BIOL 3121 - Principles of Genetics *Units: 5*

Physical Sciences and Mathematics Core (23 units)

The following core courses are required:

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- MATH 1304 - Calculus I *Units: 4 or Students in the Cell and Molecular Biology Option; Ecology and Conservation Biology Option; Forensic Science Option; or General Biology Option may substitute MATH 1300 Trigonometry and Analytic Geometry 4 units. Note: Students should take the most advanced course for which they are qualified. Biologists continuing on to graduate work should complete MATH 1305 Calculus II as a minimum.*
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Option Requirements

The Biological Science B.S. degree requires that students must select one of following options:

- Biological Science, Cell and Molecular Biology Option, B.S.
- Biological Science, Ecology and Conservation Biology Option, B.S.
- Biological Science, Forensic Science Option, B.S.
- Biological Science, General Biology Option, B.S.
- Biological Science, Microbiology/Biomedical Laboratory Sciences Option, B.S.
- Biological Science, Physiology Option, B.S.

Ecology and Conservation Biology Option (41-48 units)

Required Courses

Choose 17-24 units of required courses:

- CHEM 2301 - Survey of Organic Chemistry *Units: 4*
- CHEM 2302 - Survey of Organic Chemistry *Units: 4*
or CHEM 3301 Organic Chemistry 5 units
CHEM 3302 Organic Chemistry 5 units
CHEM 3303 Organic Chemistry 5 units

- CHEM 3400 - Introductory Biochemistry *Units: 4*
or
- CHEM 4411 - General Biochemistry *Units: 4*

- PHYS 1700 - Elementary Physics *Units: 4*
and PHYS 1780 Elementary Physics Laboratory 1 unit
- *or the series below may be substituted; only 5 of 12 units will apply to major.*
 - PHYS 2701 Introductory Physics: Force, Mass and Motion 4 units
 - PHYS 2702 Introductory Physics: Heat, Sound, Electricity and Magnetism 4 units
 - PHYS 2703 Introductory Physics: Light and Modern Physics 4 units

Electives

Choose 24 units of elective courses to complete the concentration:

Ecology Courses

Select at least one course (minimum 4 units) from the following:

- BIOL 4130 - Biogeography *Units: 4*
or cross-listed GEOG 4130.
- BIOL 4530 - Ecological Methods *Units: 4*

Organismal/Systematics Courses

Select at least 20 units from the following (can include one course from the "Ecology Courses" listed above:

- BIOL 3122 - Principles of Developmental Genetic Analysis *Units: 4*
- BIOL 3216 - Freshwater Environments *Units: 4*
- BIOL 3405 - Microbiology *Units: 6*
- BIOL 3441 - Biomedical Parasitology *Units: 4*
- BIOL 4142 - Microbial Symbioses *Units: 4*
- BIOL 4340 - Environmental Microbiology *Units: 4*
- BIOL 4513 - Animal Senses *Units: 4*
- BIOL 4516 - Environmental Animal Physiology *Units: 4*
- BIOL 4518 - Animal Behavior *Units: 4*
- BIOL 4583 - Vertebrate Biology *Units: 4*
- ENVT 3400 - Environmental Resource Analysis *Units: 4*
- ENVT 4100 - Environmental Impact Analysis *Units: 4*
- GEOL 3400 - General Oceanography *Units: 4*

Courses offered at Moss Landing Marine Laboratories

- MSC 4103 - Marine Ecology *Units: 6*
- MSC 4105 - Marine Science Diving *Units: 4.5*
- MSC 4112 - Marine Birds and Mammals *Units: 6*
- MSC 4113 - Marine Ichthyology *Units: 6*

- MSC 4124 - Marine Invertebrate Zoology I *Units: 6*
- MSC 4131 - Marine Botany *Units: 6*
- MSC 4144 - Biological Oceanography *Units: 6*

Course Descriptions

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Other Undergraduate Degree Requirements

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Biological Science, Forensic Science Option, B.S.

Department & Faculty Information

Biological Science (B.S.) 180-187 units

Program Description

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- Administrator
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- Botanist
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- Toxicologist
- Veterinarian
- Zoologist

Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located on Monterey Bay, and at a number of field locations throughout the San Francisco Bay Area, including the South San Francisco Bay National Wildlife Refuge Field Station, and the Garin Reserve adjacent to campus.

A program in Biomedical Laboratory Sciences is offered to qualify students for California hospital traineeships which lead to state licensure as medical technologists.

Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted 9 units of credit in place of BIOL 1001-2 and 2040 or, if student is a Biology Major, 10 units in place of BIOL 1401 and 1403. No Advanced Placement credit is given for BIOL 1402.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Major Requirements (B.S.) 100-113 units

The B.S. degree should be considered by students anticipating careers in biology or the health sciences that require graduate school, professional school, or specialized training programs such as biotechnology and medical technology. All students wishing to enter medicine, dentistry, veterinary medicine, or biomedical laboratory positions should obtain a Bachelor of Science degree. Students wishing to teach in secondary schools may want to consider the B.A. degree. The B.S. degree requires a minimum of 180 units; 187 units with the Forensic Science Option.

- The core major consists of 43 units;
- the Cell and Molecular Biology Option consists of 63 units;
- the Ecology and Conservation Biology Option consists of 41-48 units;
- the Forensic Science Option consists of 68-70 units;
- the General Biology Option consists of 57 units;
- the Microbiology/Biomedical Laboratory Sciences Option consists of 62 units;
- the Physiology Option consists of 56-64 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*
Note: Requirements are subject to change, so consult your advisor in the Department of Biological Sciences for clarification and interpretation of your major requirements. Because the upper division requirements of the B.S. degree are not large, students also need to carefully track their progress toward the 60 upper division units required for graduation.

Biological Sciences Core (20 units)

The following core courses are required:

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- BIOL 3121 - Principles of Genetics *Units: 5*

Physical Sciences and Mathematics Core (23 units)

The following core courses are required:

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*

- **MATH 1304 - Calculus I** *Units: 4 or Students in the Cell and Molecular Biology Option; Ecology and Conservation Biology Option; Forensic Science Option; or General Biology Option may substitute MATH 1300 Trigonometry and Analytic Geometry 4 units. Note: Students should take the most advanced course for which they are qualified. Biologists continuing on to graduate work should complete MATH 1305 Calculus II as a minimum.*
- **STAT 3031 - Statistical Methods in Biology** *Units: 4*

Option Requirements

The Biological Science B.S. degree requires that students must select one of following options:

- Biological Science, Cell and Molecular Biology Option, B.S.
- Biological Science, Ecology and Conservation Biology Option, B.S.
- Biological Science, Forensic Science Option, B.S.
- Biological Science, General Biology Option, B.S.
- Biological Science, Microbiology/Biomedical Laboratory Sciences Option, B.S.
- Biological Science, Physiology Option, B.S.

Forensic Science Option (68-70 units)

Completion of the Forensic Science Option also qualifies the student to receive a minor in Chemistry which consists of 38 units of coursework included in the option.

Required Courses

Sixty (60) units required:

- **BIOL 2010 - Human Physiology and Anatomy I** *Units: 5*
- **BIOL 4485 - PCR, DNA Sequencing and Fragment Analysis** *Units: 4*
- **CHEM 2200 - Quantitative Analysis** *Units: 5*
- **CHEM 3200 - Bioanalytical and Forensic Instrumentation** *Units: 4*
- **CHEM 3301 - Organic Chemistry** *Units: 5*
- **CHEM 3302 - Organic Chemistry** *Units: 5*
- **CHEM 3303 - Organic Chemistry** *Units: 5*
- **CHEM 3400 - Introductory Biochemistry** *Units: 4*
- **PHYS 2701 - Introductory Physics: Force, Mass and Motion** *Units: 4*
- **PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism** *Units: 4*
- **PHYS 2703 - Introductory Physics: Light and Modern Physics** *Units: 4*

Criminal Justice

- **CRJA 2200 - Basic Criminal Investigation** *Units: 4*
- **CRJA 3800 - Comparative Evidence and Its Evaluation** *Units: 4*
- **CRJA 4830 - Seminar in Forensic Research** *Units: 1*
- **CHEM 4830 - Seminar in Forensic Research** *Units: 1*
- **BIOL 4830 - Seminar in Forensic Research** *Units: 1*

Electives

Choose 8-10 units of elective courses:

Select at least one course from the following:

- BIOL 2020 - Human Physiology and Anatomy II *Units: 5*
- BIOL 3405 - Microbiology *Units: 6*
- BIOL 4160 - Medical Physiology *Units: 4*
- BIOL 4490 - Bioinformatics *Units: 4*

And at least one course from the following:

- CRJA 3400 - Advanced Criminal Investigation *Units: 4*
- CRJA 3500 - Criminal Identification *Units: 4*
- CRJA 4124 - Sex Crime Investigation *Units: 4*

Course Descriptions

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Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Biological Science, General Biology Option, B.S.

Department & Faculty Information

Biological Science (B.S.) 180-187 units

Program Description

Biology is concerned with living matter in all its forms, responses, and interactions. It deals with the study of anything that has been or is alive: microbes, all plants, and all animals, including humans. The science of biology includes a large number of highly integrated sub-disciplines such as microbiology, genetics, ecology, evolution, physiology, systematics, and behavior. Biologists must draw upon a wide variety of academic disciplines to make observations and draw conclusions, and well-trained biologists have solid backgrounds in chemistry, mathematics, computer science, statistics, physics, and the humanities, as required by graduate programs and professional schools, to meet the demands of professions in the life sciences.

The Department of Biological Sciences offers a diversified curriculum in the life sciences. Courses are designed for biology majors with specific degree objectives, for students seeking applied technical training, and for non-major students with general interest in biological subjects. Undergraduate programs will prepare students for both graduate work and for a diversity of careers. Biology majors may enter specialized or general careers in life science and find themselves working in laboratories, offices, the field, farms, administrative posts, academic institutions, industry, government agencies, private foundations, botanic gardens and zoos, wildlife preserves, and elsewhere.

Student Learning Outcomes

Students graduating with a B.S. or B.A. in Biological Science from Cal State East Bay will be able to:

1. demonstrate how evolutionary processes give rise to the diversity and unity of life, from genomes to ecosystems;
2. explain the relationship between structure and function across all levels of biological organization, from ions to ecosystems;
3. clearly communicate biological information in a variety of formats (written, oral, graphical, computational) using a style appropriate for the intended audience;
4. apply methods of scientific inquiry-specifically, students will be able to formulate testable hypotheses, collect and analyze data, and report conclusions;
5. gather, interpret, and evaluate published scientific information.

Career Possibilities

- Administrator
- Biotechnologist
- Botanist
- Cell Biologist
- Consultant
- Dentist
- Ecologist
- Entomologist
- Environmentalist
- Genetic Engineer
- Physiologist
- Geneticist
- Health Scientist
- Lab Assistant
- Marine Biologist
- Medical Doctor
- Medical Technologist
- Pharmacologist
- Physical Therapist
- Population Biologist
- Researcher
- Teacher
- Space Biologist
- Technical Sales
- Technical Writer
- Toxicologist

- Veterinarian
- Zoologist

Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located on Monterey Bay, and at a number of field locations throughout the San Francisco Bay Area, including the South San Francisco Bay National Wildlife Refuge Field Station, and the Garin Reserve adjacent to campus.

A program in Biomedical Laboratory Sciences is offered to qualify students for California hospital traineeships which lead to state licensure as medical technologists.

Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted 9 units of credit in place of BIOL 1001-2 and 2040 or, if student is a Biology Major, 10 units in place of BIOL 1401 and 1403. No Advanced Placement credit is given for BIOL 1402.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Major Requirements (B.S.) 100-113 units

The B.S. degree should be considered by students anticipating careers in biology or the health sciences that require graduate school, professional school, or specialized training programs such as biotechnology and medical technology. All students wishing to enter medicine, dentistry, veterinary medicine, or biomedical laboratory positions should obtain a Bachelor of Science degree. Students wishing to teach in secondary schools may want to consider the B.A. degree. The B.S. degree requires a minimum of 180 units; 187 units with the Forensic Science Option.

- The core major consists of 43 units;
- the Cell and Molecular Biology Option consists of 63 units;
- the Ecology and Conservation Biology Option consists of 41-48 units;
- the Forensic Science Option consists of 68-70 units;
- the General Biology Option consists of 57 units;
- the Microbiology/Biomedical Laboratory Sciences Option consists of 62 units;
- the Physiology Option consists of 56-64 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*
Note: Requirements are subject to change, so consult your advisor in the Department of Biological Sciences for clarification and interpretation of your major requirements. Because the upper division requirements of the B.S. degree are not large, students also need to carefully track their progress toward the 60 upper division units required for graduation.

Biological Sciences Core (20 units)

The following core courses are required:

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- BIOL 3121 - Principles of Genetics *Units: 5*

Physical Sciences and Mathematics Core (23 units)

The following core courses are required:

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- MATH 1304 - Calculus I *Units: 4 or Students in the Cell and Molecular Biology Option; Ecology and Conservation Biology Option; Forensic Science Option; or General Biology Option may substitute MATH 1300 Trigonometry and Analytic Geometry 4 units. Note: Students should take the most advanced course for which they are qualified. Biologists continuing on to graduate work should complete MATH 1305 Calculus II as a minimum.*
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Option Requirements

The Biological Science B.S. degree requires that students must select one of following options:

- Biological Science, Cell and Molecular Biology Option, B.S.
- Biological Science, Ecology and Conservation Biology Option, B.S.
- Biological Science, Forensic Science Option, B.S.
- Biological Science, General Biology Option, B.S.
- Biological Science, Microbiology/Biomedical Laboratory Sciences Option, B.S.
- Biological Science, Physiology Option, B.S.

General Biology Option (57 units)

The General Biology Option in Biological Science provides a broad background in the basic sciences and in biology. It may be completed in as few as 100 units, allowing graduation with a total of 180 units minimum.

Required Courses

Forty-one (41) required units:

- BIOL 3110 - Principles of Ecology *Units: 4*
- BIOL 3122 - Principles of Developmental Genetic Analysis *Units: 4*
- BIOL 3130 - Principles of Evolutionary Biology *Units: 4*
- BIOL 3151 - Principles of Animal Physiology *Units: 5*
- CHEM 2301 - Survey of Organic Chemistry *Units: 4*
- CHEM 2302 - Survey of Organic Chemistry *Units: 4*
or this series may be substituted; only 8 units will apply to major.
CHEM 3301 Organic Chemistry 4 units
CHEM 3302 Organic Chemistry 4 units

CHEM 3303 Organic Chemistry 4 units

- CHEM 3400 - Introductory Biochemistry *Units: 4*
or
- CHEM 4411 - General Biochemistry *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Advanced Biological Science Electives

Complete 16 units of upper division electives in biological science.

(May include up to 4 units of approved courses in sciences other than Biology and pertinent to the student's area of special interest. The approved courses are CHEM 4412 and GEOL 3400; other courses subject to approval by petitioning the department prior to registration.)

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Biological Science, Microbiology/Biomedical Laboratory Sciences Option, B.S.

Department & Faculty Information

Biological Science (B.S.) 180-187 units

Program Description

Biology is concerned with living matter in all its forms, responses, and interactions. It deals with the study of anything that has been or is alive: microbes, all plants, and all animals, including humans. The science of biology includes a large number of highly integrated sub-disciplines such as microbiology, genetics, ecology, evolution, physiology, systematics, and behavior. Biologists must draw upon a wide variety of academic disciplines to make observations and draw conclusions, and well-trained biologists have solid backgrounds in chemistry, mathematics, computer science, statistics, physics, and the

humanities, as required by graduate programs and professional schools, to meet the demands of professions in the life sciences.

The Department of Biological Sciences offers a diversified curriculum in the life sciences. Courses are designed for biology majors with specific degree objectives, for students seeking applied technical training, and for non-major students with general interest in biological subjects. Undergraduate programs will prepare students for both graduate work and for a diversity of careers. Biology majors may enter specialized or general careers in life science and find themselves working in laboratories, offices, the field, farms, administrative posts, academic institutions, industry, government agencies, private foundations, botanic gardens and zoos, wildlife preserves, and elsewhere.

Student Learning Outcomes

Students graduating with a B.S. or B.A. in Biological Science from Cal State East Bay will be able to:

1. demonstrate how evolutionary processes give rise to the diversity and unity of life, from genomes to ecosystems;
2. explain the relationship between structure and function across all levels of biological organization, from ions to ecosystems;
3. clearly communicate biological information in a variety of formats (written, oral, graphical, computational) using a style appropriate for the intended audience;
4. apply methods of scientific inquiry-specifically, students will be able to formulate testable hypotheses, collect and analyze data, and report conclusions;
5. gather, interpret, and evaluate published scientific information.

Career Possibilities

- Administrator
- Biotechnologist
- Botanist
- Cell Biologist
- Consultant
- Dentist
- Ecologist
- Entomologist
- Environmentalist
- Genetic Engineer
- Physiologist
- Geneticist
- Health Scientist
- Lab Assistant
- Marine Biologist
- Medical Doctor
- Medical Technologist
- Pharmacologist
- Physical Therapist
- Population Biologist
- Researcher
- Teacher
- Space Biologist

- Technical Sales
- Technical Writer
- Toxicologist
- Veterinarian
- Zoologist

Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located on Monterey Bay, and at a number of field locations throughout the San Francisco Bay Area, including the South San Francisco Bay National Wildlife Refuge Field Station, and the Garin Reserve adjacent to campus.

A program in Biomedical Laboratory Sciences is offered to qualify students for California hospital traineeships which lead to state licensure as medical technologists.

Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted 9 units of credit in place of BIOL 1001-2 and 2040 or, if student is a Biology Major, 10 units in place of BIOL 1401 and 1403. No Advanced Placement credit is given for BIOL 1402.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Major Requirements (B.S.) 100-113 units

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- The core major consists of 43 units;
 - the Cell and Molecular Biology Option consists of 63 units;
 - the Ecology and Conservation Biology Option consists of 41-48 units;
 - the Forensic Science Option consists of 68-70 units;
 - the General Biology Option consists of 57 units;
 - the Microbiology/Biomedical Laboratory Sciences Option consists of 62 units;
 - the Physiology Option consists of 56-64 units.
 - GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
 - *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*
- Note: Requirements are subject to change, so consult your advisor in the Department of Biological Sciences for clarification and interpretation of your major requirements. Because the upper division requirements of the B.S. degree are not large, students also need to carefully track their progress toward the 60 upper division units required for graduation.*

Biological Sciences Core (20 units)

The following core courses are required:

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- BIOL 3121 - Principles of Genetics *Units: 5*

Physical Sciences and Mathematics Core (23 units)

The following core courses are required:

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- MATH 1304 - Calculus I *Units: 4 or Students in the Cell and Molecular Biology Option; Ecology and Conservation Biology Option; Forensic Science Option; or General Biology Option may substitute MATH 1300 Trigonometry and Analytic Geometry 4 units. Note: Students should take the most advanced course for which they are qualified. Biologists continuing on to graduate work should complete MATH 1305 Calculus II as a minimum.*
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Option Requirements

The Biological Science B.S. degree requires that students must select one of following options:

- Biological Science, Cell and Molecular Biology Option, B.S.
- Biological Science, Ecology and Conservation Biology Option, B.S.
- Biological Science, Forensic Science Option, B.S.
- Biological Science, General Biology Option, B.S.
- Biological Science, Microbiology/Biomedical Laboratory Sciences Option, B.S.
- Biological Science, Physiology Option, B.S.

Microbiology/Biomedical Laboratory Sciences Option (62 units)

The Microbiology/Biomedical Laboratory Sciences option leading to a B.S. degree in Biological Science prepares students for further training after graduation in State approved hospital laboratories as required for State licensure of Medical Technologists. Traineeships are available to qualified graduates in laboratories throughout California. Trainee positions are highly competitive. This option is recommended for students contemplating work in public health, industrial microbiology, quality control, research, and graduate work in related fields.

Required Courses

Forty-six (46) units required:

- BIOL 3151 - Principles of Animal Physiology *Units: 5*
- BIOL 3405 - Microbiology *Units: 6*
- CHEM 3301 - Organic Chemistry *Units: 5*
- CHEM 3302 - Organic Chemistry *Units: 5*

- CHEM 3303 - Organic Chemistry *Units: 5*
- CHEM 4411 - General Biochemistry *Units: 4*
- CHEM 4412 - General Biochemistry *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Electives

Sixteen (16) minimum units:

- BIOL 3441 - Biomedical Parasitology *Units: 4*
- BIOL 4142 - Microbial Symbioses *Units: 4*
- BIOL 4143 - Molecular Microbiology *Units: 4*
- BIOL 4340 - Environmental Microbiology *Units: 4*
- BIOL 4405 - Microbial Physiology and Biochemistry *Units: 4*
- BIOL 4435 - Water Quality and Human Health *Units: 4*
- BIOL 4441 - Principles of Virology *Units: 4*

*Required electives for students who intend to apply for Clinical Laboratory Scientists licensing programs:

- BIOL 3430 - Hematology *Units: 4 **
- BIOL 4413 - Medical Microbiology *Units: 6 **
- BIOL 4430 - Immunology *Units: 4 **

Note:

In addition to the units required, students who intend to apply for Clinical Laboratory Scientists licensing programs are required to take:

- CHEM 2200 - Quantitative Analysis *Units: 5*

Course Descriptions

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Other Undergraduate Degree Requirements

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Biological Science, Physiology Option, B.S.

Department & Faculty Information

Biological Science (B.S.) 180-187 units

Program Description

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- Dentist
- Ecologist
- Entomologist

- Environmentalist
- Genetic Engineer
- Physiologist
- Geneticist
- Health Scientist
- Lab Assistant
- Marine Biologist
- Medical Doctor
- Medical Technologist
- Pharmacologist
- Physical Therapist
- Population Biologist
- Researcher
- Teacher
- Space Biologist
- Technical Sales
- Technical Writer
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A program in Biomedical Laboratory Sciences is offered to qualify students for California hospital traineeships which lead to state licensure as medical technologists.

Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted 9 units of credit in place of BIOL 1001-2 and 2040 or, if student is a Biology Major, 10 units in place of BIOL 1401 and 1403. No Advanced Placement credit is given for BIOL 1402.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Major Requirements (B.S.) 100-113 units

The B.S. degree should be considered by students anticipating careers in biology or the health sciences that require graduate school, professional school, or specialized training programs such as biotechnology and medical technology. All students wishing to enter medicine, dentistry, veterinary medicine, or biomedical laboratory positions should obtain a Bachelor of Science degree. Students wishing to teach in secondary schools may want to consider the B.A. degree. The B.S. degree requires a minimum of 180 units; 187 units with the Forensic Science Option.

- The core major consists of 43 units;
- the Cell and Molecular Biology Option consists of 63 units;
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- the Forensic Science Option consists of 68-70 units;
- the General Biology Option consists of 57 units;
- the Microbiology/Biomedical Laboratory Sciences Option consists of 62 units;
- the Physiology Option consists of 56-64 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*
Note: Requirements are subject to change, so consult your advisor in the Department of Biological Sciences for clarification and interpretation of your major requirements. Because the upper division requirements of the B.S. degree are not large, students also need to carefully track their progress toward the 60 upper division units required for graduation.

Biological Sciences Core (20 units)

The following core courses are required:

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- BIOL 3121 - Principles of Genetics *Units: 5*

Physical Sciences and Mathematics Core (23 units)

The following core courses are required:

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- MATH 1304 - Calculus I *Units: 4 or Students in the Cell and Molecular Biology Option; Ecology and Conservation Biology Option; Forensic Science Option; or General Biology Option may substitute MATH 1300 Trigonometry and Analytic Geometry 4 units. Note: Students should take the most advanced course for which they are qualified. Biologists continuing on to graduate work should complete MATH 1305 Calculus II as a minimum.*
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Option Requirements

The Biological Science B.S. degree requires that students must select one of following options:

- Biological Science, Cell and Molecular Biology Option, B.S.
- Biological Science, Ecology and Conservation Biology Option, B.S.
- Biological Science, Forensic Science Option, B.S.
- Biological Science, General Biology Option, B.S.
- Biological Science, Microbiology/Biomedical Laboratory Sciences Option, B.S.
- Biological Science, Physiology Option, B.S.

Physiology Option (56-64 units)

Required Courses

Choose 49-56 units of required courses:

- BIOL 3110 - Principles of Ecology *Units: 4*
or BIOL 3130 Principles of Evolutionary Biology
- BIOL 3151 - Principles of Animal Physiology *Units: 5*
- BIOL 4150 - Mammalian Physiology *Units: 4*
- BIOL 4160 - Medical Physiology *Units: 4*
- BIOL 4500 - Quantitative Methods in Physiology *Units: 2*
- BIOL 4504 - Comparative Physiology *Units: 4*
- BIOL 4505 - General Endocrinology *Units: 4*
- BIOL 4506 - Animal Physiology Laboratory *Units: 3*
- BIOL 4510 - Neurobiology *Units: 4*
- BIOL 4516 - Environmental Animal Physiology *Units: 4*

- CHEM 2301 - Survey of Organic Chemistry *Units: 4*
- CHEM 2302 - Survey of Organic Chemistry *Units: 4*
or CHEM 3301 Organic Chemistry 5 units
CHEM 3302 Organic Chemistry 5 units
CHEM 3303 Organic Chemistry 5 units

- CHEM 3400 - Introductory Biochemistry *Units: 4*
or CHEM 4411 General Biochemistry
- CHEM 4460 - Major Organ Biochemistry *Units: 3*

- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Electives

Select at least two additional courses (7-8 units) from the previous list or any other upper division biology course applicable to the B.S. degree to complete the minimum number of total overall units.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women

requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Arts

Biological Science, M.A.

Department & Faculty Information

Biological Science, M.A. and M.S.

The Master of Science and Master of Arts degrees in Biological Science offers students the opportunity to obtain advanced academic and research experience in specialized areas of biological science. The program prepares students for careers or further education in the biological sciences.

Biological science is a fast-changing, exciting field offering students numerous options for rewarding careers and scientific advancement. The M.S. in Biological Science is a research-based thesis program that provides students with opportunities to develop and complete research projects and experiences to enhance advancement and career opportunities in biology. The M.A. in Biological Science is a coursework (nonthesis) program with a comprehensive examination as the culminating experience. Both the M.S. and the M.A. programs require 45 quarter units of coursework.

Student Learning Outcomes

Students graduating with an M.S. or M.A. in Biological Science from Cal State East Bay will be able to:

1. demonstrate a broad and sophisticated understanding that contributes to biological concepts and principles across all levels of biological organization, from ions to ecosystems;
2. demonstrate expertise in a specific area of biological science;
3. independently apply the scientific method to formulate testable biological hypotheses, analyze empirical data, and synthesize the results of the analysis;
4. clearly communicate the design and results of an observational or experimental analysis in a variety of formats, including the graduate thesis, scientific paper, scientific poster, and oral presentation;
5. gather and evaluate primary scientific literature and judge the value of the information presented in relation to particular biological questions.

Career Opportunities

Students interested in careers that involve research or interested in pursuing a Ph.D. should consider the M.S. degree in Biological Science. Examples of M.S. study areas in the department are environmental biology, ecology, population biology, marine biology, physiology, neurobiology, cell and molecular biology, microbiology, genetics, and virology. Students interested in career advancement in fields that do not involve research, such as teaching, management, or health professions (including dental, medical, pharmacy, or veterinary practice) should consider the M.A. degree in Biological Science.

Faculty

The Biological Science faculty is comprised of 14 full-time professors at Cal State East Bay. The faculty are committed to excellence in teaching and research, and many of the faculty have federal, state, and private research grant support.

Related Programs

The Biotechnology Certificate Program within the department is a post-baccalaureate program emphasizing molecular and cellular techniques. For more information about the Biotechnology Certificate Program refer to the Certificate in Biotechnology section of this chapter. The M.S. degree in Marine Science is offered at Moss Landing Marine Laboratories (MLML), located on Monterey Bay, for students from Cal State East Bay and seven other California State University consortium schools. Graduate students from Cal State East Bay majoring in other areas of study may also take such courses at Moss Landing as are appropriate for their degree objectives. Contact the Biological Sciences Department for application forms and deadlines for this program. For more information on the M.S. in Marine Sciences refer to the Marine Science chapter in the graduate section of this catalog.

Research Facilities

Department facilities for student research and study include invertebrate, vertebrate, and entomology museums; herbarium; greenhouse; insectary; radiation hot lab; microbiology facilities; cell culture facilities; animal rooms; molecular biology labs; microscope facilities including phase, differential interference contrast and fluorescence microscopy; and DNA sequencing and cell storage facilities. Local field opportunities may be found at a wetlands field station at the San Francisco Bay National Wildlife Refuge, the brackish and salt water marshes of the Hayward Regional Shoreline of San Francisco Bay, and a 35-acre oak-grassland preserve located immediately adjacent to the Hayward Hills campus and contiguous with Garin Regional Park (one of the East Bay Regional Parks).

Research and Financial Support

Research space is available to all "Classified Graduate" students in the M.S. in Biological Science program, usually in the major advisor's research lab. Limited funds for graduate research supplies are available each year from the department budget. Graduate research grants are available annually on a competitive basis through Academic Programs and Graduate Studies and can be used to purchase supplies or pay travel expenses for graduate research. In addition, research assistantships are available for some students through faculty research grants. Teaching assistantships may become available for a given quarter. As financial aid within the department is limited, you may want to contact the Financial Aid Office regarding other assistance from the University Work-Study Program, loans, scholarships, etc.

Admission Requirements

1. The M.S. and M.A. degree programs in the Department of Biological Sciences is open to graduates of accredited institutions who have a four-year baccalaureate degree in any field of the biological sciences and who have achieved a GPA of at least 2.75 in all undergraduate work and an average of 3.00 in all biological science courses taken as an upper division student. Normally, all applicants should have completed undergraduate courses equivalent to those required of all biological science majors at Cal State East Bay. Applicants must have taken basic courses in biological and physical sciences and mathematics/statistics; areas omitted, if any, will be treated as course deficiencies and must be completed by the time of classification (see below).

2. In addition to filing the university application and fee, students must apply to the Department of Biological Sciences for admission to graduate standing in the M.S. or M.A. degree program. Application forms are available through the department office or by accessing the Biology Department website. In addition to the GPA requirements for admission mentioned in #1, the department requires that the following be sent directly to the Department of Biological Sciences:
 - departmental application
 - GRE General Test Scores (target scores are in the upper 30th percentile; significant deviation from target scores may be grounds for
 - denial of admission)
 - three letters of reference
 - statement of purpose

Applicant files will not be reviewed or processed until the application file is complete; this is the applicant's responsibility. During the admission process, students interested in the M.S. program are encouraged to obtain information about research interests of the faculty and to contact faculty members who could potentially serve as thesis advisors.
3. All students admitted to the program will be admitted as "Conditionally Classified Graduate" students.
4. Those students applying for admission to the program with the intent of obtaining an M.S. degree in Marine Sciences from work done at Moss Landing Marine Laboratories must gain admission into "Conditionally Classified Graduate" status as stated above. However, the classification procedures as stated below WILL NOT apply for these students; instead, once admitted to the program as "Conditionally Classified Graduate" students, they will follow MLML's classification procedures (see the Marine Science chapter in the graduate section of this catalog).
5. No more than 13 quarter units of courses applicable toward the master's degree completed before admission to the program may be counted toward the degree.

Note: Although not an admission requirement, satisfaction of the University Writing Skills Requirement (UWSR) must begin during the first quarter of admission to the program and must be completed before a student can become a fully "Classified Graduate" student.

M.A. Requirements

A "Conditionally Classified Graduate" student must become a fully "Classified Graduate" student in the program as set forth in 1, 2, and 3 below, if applicable, within four quarters of acceptance into the Master's program or the "Conditional Classification" will expire and the student will be placed in "Unclassified Post-baccalaureate" status. It is the responsibility of the student to make sure these requirements are met within the specified time limits.

1. Specify the area of proposed course and comprehensive exam specialization in writing to the Department of Biological Sciences. Examples of areas of specialization are available from the department or Graduate Coordinator.
2. Complete basic course deficiencies. If the student lacks basic courses in biological or physical sciences, or mathematics/statistics, these courses must be completed by the end of the fourth quarter following admission to the program.
3. University Writing Skills Requirement. The University Writing Skills Requirement must be satisfied. (See Graduate Degree Information chapter in this catalog.)

Advanced to Candidacy

The student must have:

1. attained "Classified Graduate" standing

2. completed at least 12 quarter units of satisfactory work beyond the baccalaureate degree suitable for inclusion in the M.A. program in Biological Science as approved by the graduate advisory committee. At least 3 quarter units of graduate level coursework in residence at Cal State East Bay must be included. (You must maintain a 3.00 GPA in the degree coursework to remain in good standing.)
3. met with a faculty advisor in the student's area of course and comprehensive examination specialization to plan for the comprehensive examination.
4. registered for 2 units of BIOL 6901 - Comprehensive Examination Preparation in the spring quarter of the year in which the comprehensive examination is to be completed.

M.A. Curricular Requirements (45 units)

A total of 45 quarter units is required beyond the baccalaureate with a GPA of 3.0 or above and no grade lower than "C" in courses included in the program, and with specific requirements as follows:

1. Graduate courses in Biology (21-43 units)

In area of specialization as approved by the student's graduate advisor; included must be at least one, but not more than two, graduate seminars in the area of special concentration.

May not include units of

- BIOL 6898 - Cooperative Education *Units: 1-4*
- BIOL 6900 - Independent Study *Units: 1-4*
- BIOL 6910 - University Thesis *Units: 1-9*

2. Upper division undergraduate Biology majors courses, (0-22 units)

Taken as a graduate student and approved by the advisory committee as appropriate to the student's objective.

3. Comprehensive Examination Preparation (2 units)

Taken in spring quarter in the final year of the program.

- BIOL 6901 - Comprehensive Examination Preparation *Units: 2*

4. Successful completion of comprehensive written examination in area of specialization in Biological Sciences.

Granting the Degree

Upon successful completion of the above requirements, the department will recommend that the candidate be granted the M.A. degree.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Master of Science

Biological Science, M.S.

Department & Faculty Information

Biological Science, M.A. and M.S.

The Master of Science and Master of Arts degrees in Biological Science offers students the opportunity to obtain advanced academic and research experience in specialized areas of biological science. The program prepares students for careers or further education in the biological sciences.

Biological science is a fast-changing, exciting field offering students numerous options for rewarding careers and scientific advancement. The M.S. in Biological Science is a research-based thesis program that provides students with opportunities to develop and complete research projects and experiences to enhance advancement and career opportunities in biology. The M.A. in Biological Science is a coursework (nonthesis) program with a comprehensive examination as the culminating experience. Both the M.S. and the M.A. programs require 45 quarter units of coursework.

Student Learning Outcomes

Students graduating with an M.S. or M.A. in Biological Science from Cal State East Bay will be able to:

1. demonstrate a broad and sophisticated understanding that contributes to biological concepts and principles across all levels of biological organization, from ions to ecosystems;
2. demonstrate expertise in a specific area of biological science;
3. independently apply the scientific method to formulate testable biological hypotheses, analyze empirical data, and synthesize the results of the analysis;
4. clearly communicate the design and results of an observational or experimental analysis in a variety of formats, including the graduate thesis, scientific paper, scientific poster, and oral presentation;
5. gather and evaluate primary scientific literature and judge the value of the information presented in relation to particular biological questions.

Career Opportunities

Students interested in careers that involve research or interested in pursuing a Ph.D. should consider the M.S. degree in Biological Science. Examples of M.S. study areas in the department are environmental biology, ecology, population biology, marine biology, physiology, neurobiology, cell and molecular biology, microbiology, genetics, and virology. Students interested in career advancement in fields that do not involve research, such as teaching, management, or health professions (including dental, medical, pharmacy, or veterinary practice) should consider the M.A. degree in Biological Science.

Faculty

The Biological Science faculty is comprised of 14 full-time professors at Cal State East Bay. The faculty are committed to excellence in teaching and research, and many of the faculty have federal, state, and private research grant support.

Related Programs

The Biotechnology Certificate Program within the department is a post-baccalaureate program emphasizing molecular and cellular techniques. For more information about the Biotechnology Certificate Program refer to the Certificate in Biotechnology section of this chapter. The M.S. degree in Marine Science is offered at Moss Landing Marine Laboratories (MLML), located on Monterey Bay, for students from Cal State East Bay and seven other California State University consortium schools. Graduate students from Cal State East Bay majoring in other areas of study may also take such courses at Moss Landing as are appropriate for their degree objectives. Contact the Biological Sciences Department for application forms and deadlines for this program. For more information on the M.S. in Marine Sciences refer to the Marine Science chapter in the graduate section of this catalog.

Research Facilities

Department facilities for student research and study include invertebrate, vertebrate, and entomology museums; herbarium; greenhouse; insectary; radiation hot lab; microbiology facilities; cell culture facilities; animal rooms; molecular biology labs; microscope facilities including phase, differential interference contrast and fluorescence microscopy; and DNA sequencing and cell storage facilities. Local field opportunities may be found at a wetlands field station at the San Francisco Bay National Wildlife Refuge, the brackish and salt water marshes of the Hayward Regional Shoreline of San Francisco Bay, and a 35-acre oak-grassland preserve located immediately adjacent to the Hayward Hills campus and contiguous with Garin Regional Park (one of the East Bay Regional Parks).

Research and Financial Support

Research space is available to all "Classified Graduate" students in the M.S. in Biological Science program, usually in the major advisor's research lab. Limited funds for graduate research supplies are available each year from the department budget. Graduate research grants are available annually on a competitive basis through Academic Programs and Graduate Studies and can be used to purchase supplies or pay travel expenses for graduate research. In addition, research assistantships are available for some students through faculty research grants. Teaching assistantships may become available for a given quarter. As financial aid within the department is limited, you may want to contact the Financial Aid Office regarding other assistance from the University Work-Study Program, loans, scholarships, etc.

Admission Requirements

1. The M.S. and M.A. degree programs in the Department of Biological Sciences is open to graduates of accredited institutions who have a four-year baccalaureate degree in any field of the biological sciences and who have achieved a GPA of at least 2.75 in all undergraduate work and an average of 3.00 in all biological science courses taken as an upper division student. Normally, all applicants should have completed undergraduate courses equivalent to those required of all biological science majors at Cal State East Bay. Applicants must have taken basic courses in biological and physical sciences and

mathematics/statistics; areas omitted, if any, will be treated as course deficiencies and must be completed by the time of classification (see below).

2. In addition to filing the university application and fee, students must apply to the Department of Biological Sciences for admission to graduate standing in the M.S. or M.A. degree program. Application forms are available through the department office or by accessing the Biology Department website. In addition to the GPA requirements for admission mentioned in #1, the department requires that the following be sent directly to the Department of Biological Sciences:
 - departmental application
 - GRE General Test Scores (target scores are in the upper 30th percentile; significant deviation from target scores may be grounds for
 - denial of admission)
 - three letters of reference
 - statement of purposeApplicant files will not be reviewed or processed until the application file is complete; this is the applicant's responsibility. During the admission process, students interested in the M.S. program are encouraged to obtain information about research interests of the faculty and to contact faculty members who could potentially serve as thesis advisors.
3. All students admitted to the program will be admitted as "Conditionally Classified Graduate" students.
4. Those students applying for admission to the program with the intent of obtaining an M.S. degree in Marine Sciences from work done at Moss Landing Marine Laboratories must gain admission into "Conditionally Classified Graduate" status as stated above. However, the classification procedures as stated below WILL NOT apply for these students; instead, once admitted to the program as "Conditionally Classified Graduate" students, they will follow MLML's classification procedures (see the Marine Science chapter in the graduate section of this catalog).
5. No more than 13 quarter units of courses applicable toward the master's degree completed before admission to the program may be counted toward the degree.

Note: Although not an admission requirement, satisfaction of the University Writing Skills Requirement (UWSR) must begin during the first quarter of admission to the program and must be completed before a student can become a fully "Classified Graduate" student.

M.S. Requirements

A "Conditionally Classified Graduate" student must become a fully "Classified Graduate" student in the program as set forth in 1, 2, 3, and 4 below, if applicable, within four quarters of acceptance into the Master's program or the "Conditional Classification" will expire and the student will be placed in "Unclassified Post-baccalaureate" status. It is the responsibility of the student to make sure these requirements are met within the specified time limits.

1. Establish a three-person graduate advisory committee. At least two faculty members from the Department of Biological Sciences will serve as members of the graduate advisory committee. One faculty member from the department will normally be the major advisor in guiding the student in graduate training. Other members of the committee will be chosen in consultation with the major advisor. The committee will advise on and approve the student's final program including any work and research units counted toward the degree. This advisory committee will also administer the oral examination at the completion of the thesis.
2. Complete basic course deficiencies. If the student lacks basic courses in biological or physical sciences, or mathematics/statistics, these courses must be completed by the end of the fourth quarter following admission to the program. In addition, the student's advisory committee may also determine that there are other course deficiencies that need to be satisfied.

3. Research proposal. The student must submit a formal research proposal to the departmental Graduate Committee. The department office or Graduate Coordinator has examples of these proposals and their format. The proposal must be approved by the student's advisory committee (item 1 above) and submitted to the Graduate Coordinator by the first day of the quarter in which the student wants to begin taking thesis units. If the work is to be done in an off-campus location, a letter of agreement must be included that indicates a mutual understanding and responsibility between the off-campus supervisor, Cal State East Bay, and the student.
4. University Writing Skills Requirement. The University Writing Skills Requirement must be satisfied.

Advanced to Candidacy

The student must have:

1. attained "Classified Graduate" standing
2. completed at least 12 quarter units of satisfactory work beyond the baccalaureate degree suitable for inclusion in an M.S. program in Biological Science as approved by the student's graduate advisory committee. At least 3 quarter units of graduate level coursework in residence at Cal State East Bay must be included. (You must maintain a 3.00 GPA in your degree coursework to remain in good standing.)
3. received approval from his or her advisory committee for an individual research program.

M.S. Curricular Requirements (45 units)

A total of 45 quarter units is required beyond the baccalaureate with a GPA of 3.0 or above and no grade lower than "C" in courses included in the program, and with specific requirements as follows:

1. University Thesis (9 units)

Complete copies of the University Thesis must be submitted, in accordance with the rules set forth by the Thesis Editor in the Office of the Associate Vice President, Academic Programs and Graduate Studies, to the chair of the candidate's advisory committee by the sixth week of the quarter at the end of which the degree is desired.

- BIOL 6910 - University Thesis *Units: 1-9*

2. Graduate courses in Biology (14-36 units)

In area of specialization or in areas related to it as approved by the student's advisory committee; included must be at least one, but not more than two, graduate seminars in the area of special concentration. (May include a maximum of 4 units of Independent Study (BIOL 6900); in certain circumstances exceptions may be granted by the departmental Graduate Committee.)

3. Upper division undergraduate Biology Majors courses (0-22 units)

Taken as a graduate student and approved by the advisory committee as appropriate to the student's objective. No courses that are required for B.A. or B.S. Biological Sciences students, or those that are designated for non-majors, may be counted toward the M.S. degree.

4. An oral examination

An oral examination administered by the advisory committee covering the candidate's area of specialization and thesis research. This examination will be publicized and open to all faculty.

Granting the Degree

Upon successful completion of the above requirements, the department will recommend that the candidate be granted the M.S. degree.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Marine Science, M.S.

Department & Faculty Information

Marine Science (M.S.) 45 units

Program Description

This degree program, offered through the Department of Biological Sciences and the Department of Earth and Environmental Sciences, provides the opportunity for students to acquire a practical and theoretical education in the marine sciences to prepare them for careers as marine specialists, scientists, and teachers. The program at Moss Landing provides interdepartmental work and a field facility for advanced study in the marine sciences which cannot be duplicated on the Cal State East Bay campus.

Admission to the Program

The master's degree program is administered through either the Department of Biological Sciences or Department of Earth and Environmental Sciences, depending on the choice of the student. The prospective student must meet the admission requirements of either of these departments. Refer to descriptions of these department graduate programs for complete information. Students will be accepted as "Conditionally Classified Graduate" students in the department of their choice upon completion of the admission requirements. The student will become a "Classified Graduate" student upon completion of MLML's requirements (below).

MLML Classification in the Program

A "Conditionally Classified Graduate" student may become a fully "Classified Graduate" student in the marine science program as set forth in the following steps:

1. Obtain an adviser at MLML and one from the science department at the home campus. Each new student in the master's program at MLML will be assigned an advisor who may or may not be the final thesis advisor.
2. Make up any coursework deficiencies in either the home campus department (see their regulations) and/or at MLML. MSC 4104 - Quantitative Marine Science, and three of the following five courses are prerequisites for "Classified Graduate" standing: MSC 4103 - Marine Ecology, 4141 Geological Oceanography, 4142 Physical Oceanography, 4143 Chemical Oceanography, and MSC 4144 - Biological Oceanography. These courses may be waived by the graduate committee upon certification that equivalent courses have been satisfactorily completed. MSC 4104 - Quantitative Marine Science cannot be counted toward the 45 unit degree requirement.
3. Students who do not receive a grade of "B" or better in the courses described in (2) above taken at MLML, or who wish to substitute equivalent courses taken elsewhere regardless of the grade(s) received, must petition to have the courses accepted, or must pass a written qualifying examination given by the faculty at MLML. The examination will substitute for any equivalent examination given by home campus departments. There is no official time limit, but the exam should be taken as soon as possible; only a limited number of units taken while in "Conditionally Classified" status can be counted toward the degree. The exam may be repeated once, and must be passed before the student can be "Classified." The examination will consist of a choice of five out of six questions designed to test knowledge of the concepts and principles of oceanography, marine ecology, and statistics as covered in the courses listed under (2) above. It will be used to evaluate the student's background in these subject areas and the ability to write well and formulate answers logically. Each answer will be graded "pass" or "fail" by two faculty members (a third faculty member will resolve disagreements) on accuracy, content, and ability to clearly communicate. For a reading list covering the required material and further details concerning the exam, see MLML's Assistant to the Director.
4. Students must have satisfied the University Writing Skills Requirement according to Cal State East Bay standards. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Advancement to Candidacy

In order to be Advanced to Candidacy, the student must have:

1. Attained "Classified Graduate" standing;
2. Selected a thesis problem and a thesis advisor committee. The thesis committee will be composed of at least three members, including one faculty member from MLML (who is ordinarily the thesis advisor) and, at the discretion of the home campus, a representative from that campus. The other member or members of the thesis committee may be from MLML, the home campus, or elsewhere, with the approval of the thesis advisor.

Curricular Requirements

A student becomes eligible for the master's degree in Marine Science after the following requirements have been satisfied:

1. The student has been Advanced to Candidacy
2. The student has satisfied MLML's requirements for the degree
3. The student has completed the following curriculum requirements:

Required Courses

A minimum of 22.5 quarter units of 6000- level courses are required for the MS in Marine Science, including the two (2) courses listed below.

Note: Once all curricular requirements are met, the Marine Science MS student must submit a University Thesis (MSC 6910) pre-approved by the thesis advisory committee. The thesis must conform to the rules set forth in the Cal State East Bay "University Writing Guide," available online at: www.csueastbay.edu/thesiswritingguide. Also, the student must successfully give an oral thesis defense in the form of a seminar open to the general public. The thesis advisory committee must be present, may require further oral questioning after the seminar, and will evaluate the success of the presentation.

- MSC 6285 - Graduate Seminar in Marine Science *Units: 3*
- MSC 6910 - University Thesis *Units: 1.5-6*

Elective Courses

An additional 22.5 elective units, consisting of 3000-, 4000-, and/or additional 6000-level courses as approved by the thesis committee, must be included to complete the MS in Marine Science. The following are elective courses that may be used to satisfy requirements for the major:

- MSC 4112 - Marine Birds and Mammals *Units: 6*
- MSC 4113 - Marine Ichthyology *Units: 6*
- MSC 4124 - Marine Invertebrate Zoology I *Units: 6*
- MSC 4125 - Intertidal Invertebrates of California *Units: 4.5*
- MSC 4131 - Marine Botany *Units: 6*
- MSC 4135 - Physiological Ecology of Marine Algae *Units: 6*

- MSC 6204 - Sampling and Experimental Design *Units: 6*
- MSC 6208 - Scientific Methods *Units: 6*
- MSC 6211 - Ecology of Marine Birds and Mammals *Units: 6*
- MSC 6233 - Advanced Topics in Marine Ecology *Units: 1.5-6*
- MSC 6234 - Advanced Biological Oceanography *Units: 6*
- MSC 6242 - Plate Tectonics *Units: 4.5*
- MSC 6261 - Ocean Circulation and Mixing *Units: 6*
- MSC 6262 - Satellite Oceanography *Units: 6*
- MSC 6263 - Application of Computers in Oceanography *Units: 6*
- MSC 6271 - Population Biology *Units: 4.5*
- MSC 6274 - Advanced Topics in Oceanography *Units: 1.5-6*
- MSC 6280 - Scientific Writing *Units: 3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Biological Science Minor

Department & Faculty Information

Minor Requirements (35-37 units)

The minor program is designed to provide students in other majors the opportunity to broaden their experience and understanding of the biological sciences, and it may expand their educational and employment opportunities. The minor consists of 35-37 units.

- CHEM 1100 - Introduction to College Chemistry *Units: 5*
or
- CHEM 1601 - Basic Chemistry for the Health Sciences *Units: 4*
or
- CHEM 1605 - Basic Chemistry for Healthier Living *Units: 4*

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*

- BIOL 3020 - Genetics, Evolution, and Humanity *Units: 4*
or
- BIOL 3121 - Principles of Genetics *Units: 5*

- Upper division Biology electives *Units: 12* [can include BIOL 2010 (or BIOL 2011) or BIOL 2020]

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Certificate (Undergraduate) Program

Foundational Level General Science Certificate

Department & Faculty Information

The Foundational Level General Science certificate program is designed for students who would like to teach middle school science or would like to become K-5 science specialists. Credentialed teachers who complete this program and pass the Science CSET I and II exams qualify for the Foundational-level Added Authorization in Science.

Candidates for this program should have or plan to obtain their Multiple Subject teaching credential or a Single Subject teaching credential in a subject other than a science discipline. Students who complete this program will be well prepared to teach science at the K-8 level, will have completed the State required Methods Courses in Single Subject Science and will have the content knowledge required to pass the Science CSET I and II exams. The certificate consists of 20 units.

Required Courses

- BIOL 3011 - Foundational Biology *Units: 4*
- BIOL 3012 - Foundational Biology Laboratory *Units: 1*
- CHEM 3011 - Foundational Chemistry *Units: 4*
- CHEM 3012 - Foundational Chemistry Laboratory *Units: 1*
- GEOL 3011 - Foundational Earth Science *Units: 4*
- GEOL 3012 - Foundational Earth Science Laboratory *Units: 1*
- PHYS 3011 - Foundational Physics *Units: 4*
- PHYS 3012 - Foundational Physics Laboratory *Units: 1*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Certificate (Graduate) Program

Biotechnology Certificate

Department & Faculty Information

This certificate program consists of 34 units and is designed to give recognition to students who complete a curriculum emphasizing cellular and molecular techniques. This is an appropriate capstone for biology or chemistry students and is preparatory for careers in industrial and academic biological research, development, and production. The Biotechnology Certificate Program requires 34 units of advanced work. The laboratory courses, important to this program, emphasize a "hands-on" approach with close faculty supervision. In addition to experimental techniques, safety standards and quality control are also stressed. Courses are scheduled in a non-conflicting pattern so that a full-time student entering this program can complete the requirements in one academic year. There are over 300 biotechnology companies in the Bay Area with a growing demand for employees skilled in the technical subjects herein

outlined. Seven faculty members from the Departments of Biological Sciences and Chemistry share the responsibility for this program and play an active role in arranging employment interviews for students who successfully complete this certificate program.

Admission to the Program

The Certificate Program in Biotechnology is open to undergraduates and graduates of accredited institutions who have a degree major in any field of biological sciences or chemistry and who have achieved a GPA of at least 2.75 in the major and at least 3.0 in the prerequisite courses. Applicants failing to meet these criteria may petition the Biotechnology Committee for a waiver of these requirements.

Prerequisites

Applicants must have majored in biology or chemistry, and have completed the courses listed below or their equivalents. Participants in this program will be selected by the Biotechnology Committee of the Department of Biological Sciences.

- BIOL 3121 - Principles of Genetics *Units: 5* (taken within last 3 years)
- BIOL 3405 - Microbiology *Units: 6*
- BIOL 4455 - Molecular Cell Biology *Units: 4* (taken within last 3 years)
- CHEM 4411 - General Biochemistry *Units: 4*

Continued Participation in the Program

Students must achieve a minimum grade of "B" in each required course for continued participation and pass a comprehensive written examination upon completion of the program. Students who have a baccalaureate degree and wish to combine the Biotechnology Certificate with an M.S. in Biological Science should be aware that only 13 units earned prior to admission to the Master's Program may be applied to a graduate degree. Students wishing to pursue the M.S. degree in Biological Science must also complete the application process to be considered for the M.S. degree.

Curricular Requirements

Required Courses (34 units)

- BIOL 4450 - Cell Culture Techniques *Units: 4*
- BIOL 4485 - PCR, DNA Sequencing and Fragment Analysis *Units: 4*
- BIOL 4490 - Bioinformatics *Units: 4*
- BIOL 6141 - Advanced Molecular Techniques *Units: 4*
- BIOL 6147 - Functional Genomics *Units: 4*
- BIOL 6151 - Cell and Molecular Biology I *Units: 5*
- BIOL 6152 - Cell and Molecular Biology II *Units: 5*

- CHEM 6430 - Protein Chemistry Techniques *Units: 4*
or cross-listed: BIOL 6430 - Protein Chemistry Techniques Units: 4

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Department of Chemistry and Biochemistry

The Department Office is located on the 4th Floor of the North Science building, Room 431.

We are open from 9:00 a.m. to 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-3452

Faculty

Professors

Michael Groziak, Ph.D. Northwestern University

Chul-Hyun Kim, Ph.D. University of California, Berkeley

Anne T. Kotchevar, Ph.D. University of Minnesota, Minneapolis

Danika LeDuc, Ph.D. University of California, Berkeley

Associate Professors

Ann A. McPartland (Chair), Ph.D. Purdue University

Monika Sommerhalter, Ph.D. Technische Universität Berlin

Assistant Professors

Patrick Fleming, Ph.D. The Ohio State University

Marlin Halim, Ph.D. Columbia University

Patrick Huang, Ph.D. University of California, Berkeley

Ruth Tinnacher, Ph.D. Colorado School of Mines

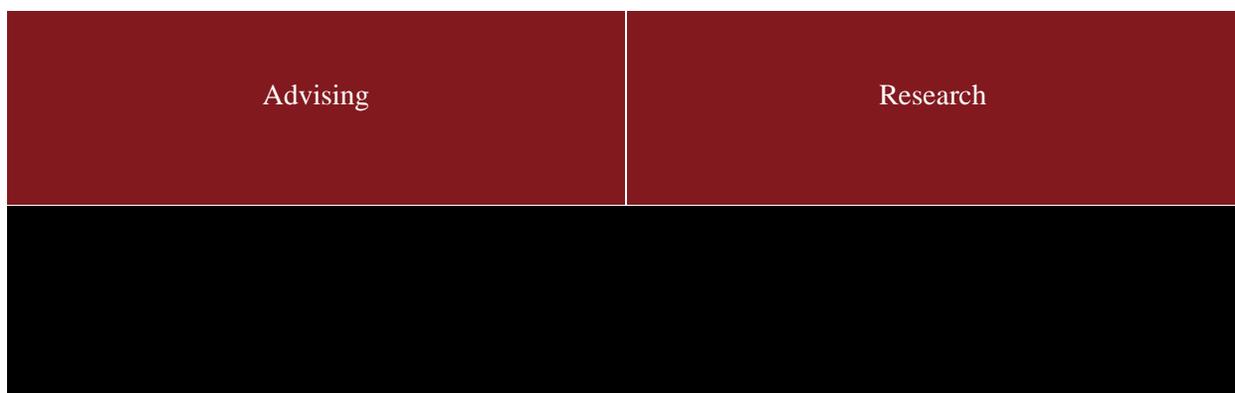
Graduate Coordinator: Chul-Hyun Kim

Department Statement

Chemistry is known as the central science because just about everything that we can touch and feel is made of chemicals. The many applications of chemistry to our lives have created a broad range of

opportunities for employment. With a B.A., B.S., or M.S. degree in Chemistry, a student may find a research or technical position in the petroleum, chemical or food processing industries. B.A. and B.S. graduates with degrees in chemistry or biochemistry are also employed by pharmaceutical and biotechnology companies. In addition, graduates of chemistry or biochemistry work in sales and plant development, quality control, customer relations, and many other aspects of modern business. Combining the bachelor's degree in chemistry or biochemistry with a higher degree can lead to many unique and rewarding careers. The B.S. degree in biochemistry is particularly useful for those planning advance training in medicine, dentistry, pharmacy, or optometry. The B.A. in Chemistry and B.A. Biochemistry degrees with the Option in Chemistry Education prepare students for entry into a single subject teaching credential program in chemistry. The B.S. and M.S. programs provide excellent preparation for the Ph.D. degree for the student who wants to make research and/or university teaching in chemistry or biochemistry a primary occupation. Chemical research is at the heart of progress that is made in the development of pharmaceuticals, agriculture, nutrition, the environment, and our understanding of nature.

In general, the outlook is bright for anyone who wishes to study chemistry or biochemistry.



Bachelor of Arts

Biochemistry, B.A.

Department & Faculty Information

Biochemistry (B.A.) 180 units

Program Description

The Department of Chemistry and Biochemistry provides a strong education in chemistry and biochemistry that prepares its students to function and thrive in our society. The department attempts to increase the problem solving and critical thinking skills of all students. Non-science students learn about the scientific and chemical aspects of everyday life that allow them to understand issues related to the environment, energy production, disease prevention, and nutrition. Students of the sciences learn the fundamentals of chemistry that control the interactions of elements and molecules which form the building blocks in nature. Chemistry majors receive extensive instruction in predicting chemical reactivity. Building on an understanding of mathematics, physics, and biology, chemistry majors receive a background in the major disciplines of chemistry including inorganic, analytical, organic, physical, and biochemistry. Students learn the protocols and techniques for working safely with chemicals. The department recognizes the importance of the pursuit of new knowledge in the development of skilled

scientists and productive members of society, and encourages its students to participate in research projects and cooperative educational opportunities.

The undergraduate programs offered by the department include: Chemistry, B.S.; Biochemistry, B.S.; Chemistry, Forensic Science Option, B.S.; Chemistry, B.A.; Chemistry, Chemistry Education Option, B.A.; Biochemistry, B.A.; Biochemistry, Chemistry Education Option, B.A.; and a Chemistry Minor. Descriptions of these programs and their requirements are listed below. (See the Department of Chemistry and Biochemistry (Graduate) for descriptions of the department's Chemistry, M.S. and M.S. Option in Biochemistry.)

The Chemistry, B.S. degree is approved by the American Chemical Society (ACS). A certified degree is a valuable credential that serves as national-level recognition for completing a rigorous academic chemistry curriculum in an ACS-approved department. The extra rigor of an ACS certified degree is valued by both potential employers and graduate schools.

Mission Statement

It is imperative that CSUEB chemistry students possess sufficient theoretical and practical training in chemistry and biochemistry so that they will be able to assume the significant technical responsibilities required by the chemical and biotechnology industries that will employ them. It is important that our students are not only trained in chemistry (and biochemistry), but will become respected scientists and research technicians. In addition, it is important that students planning for entrance into Ph.D. programs or pre-professional programs are more than adequately prepared for entrance into these programs.

Student Learning Outcomes

Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:

1. Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
2. Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments.
3. Use quantitative reasoning to analyze chemical problems and evaluate chemical data.
4. Write and speak clearly on chemical or biochemical issues.
5. Work collaboratively in teams to solve chemical problems.

Career Opportunities

Analytical Chemist
Biotechnologist
Biochemist
Biophysicist
Chemical Engineer
Chemist
Dietitian
Environmental Chemist
Food and Drug Inspector
Forensic Chemist
Geochemist

Geophysicist
Health Professional
Materials Scientist
Organic Chemist
Perfumer
Petrologist
Pharmacist
Pharmaceutical Chemist
Physical Chemist
Pollution Control
Professor
Public Health Educator
Quality Control Technician
Teacher
Water Purification Chemist

Features

The Department of Chemistry and Biochemistry employs highly qualified and experienced technical staff to assist faculty and students in their course and research experiences.

The Department of Chemistry and Biochemistry maintains laboratory equipment and instruments typical of comparable institutions. These include a 500 MHz nuclear magnetic resonance (NMR) spectrometer; UV-Visible (diode array), infrared and atomic absorption (AA: flame, graphite furnace and cold vapor) spectrophotometers; high performance liquid chromatograph (HPLC) and ion chromatograph (IC); an FTIR spectrometer; and capillary gas chromatograph/mass spectrometer (GC/MS). Other specialized equipment includes a research-grade dry box, growth chamber, anaerobic chamber, and environmental field sampling equipment. There are PC-controlled and various desktop versions of the HPLC and visible spectrometers. A molecular modeling facility is also available for instruction and research.

The university offers Cooperative Education coursework which provides chemically related employment opportunities and students may, with department approval, obtain credit for this work.

The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. They are active in many aspects of the department and provide free peer tutoring, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

For Advanced Placement course equivalencies, see Registration. Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Major Requirements (B.A.) 93-111 units

The Bachelor of Arts degree, major in Biochemistry, is designed to prepare students for employment in biochemistry, biotechnology, and related fields. It can also be utilized by students as a preparation for professional health-related programs, secondary school teaching, or non-traditional career paths (e.g., computer science, bioinformatics, business administration, and pharmaceutical sales). Students electing to

pursue the B.A. in Biochemistry Degree could also earn a minor in another appropriate discipline such as biology. The B.A. degree consists of 180 units.

- The core major consists of 90-91 units;
- the additional elective units for the "no-option" major consists of 3-6 units
- the Chemistry Education Option consists of 20 units
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Lower Division Core (54 units)

The following are required lower division courses in the shared core group for Biochemistry B.A. majors:

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

One of the following:

- CS 1020 Introduction to Computers *Units: 4*
- CS 1080 Introduction to Media Computation *Units: 4*
- CS 1160 Introduction to Computer Science I *Units: 4*

Upper Division Core (36-37 units)

The following are required upper division courses in the shared core group for Biochemistry B.A. majors:

- CHEM 3301 - Organic Chemistry *Units: 5*
- CHEM 3302 - Organic Chemistry *Units: 5*
- CHEM 3303 - Organic Chemistry *Units: 5*
- CHEM 3501 - Biophysical Chemistry *Units: 4*
or CHEM 3511 Physical Chemistry Lecture 3 units (not an option for Chemistry Education Option students)
- CHEM 4411 - General Biochemistry *Units: 4*
- CHEM 4412 - General Biochemistry *Units: 4*
- CHEM 4413 - General Biochemistry *Units: 4*
- CHEM 4430 - General Biochemistry Laboratory *Units: 4*
- CHEM 4431 - Advanced Biochemistry Laboratory *Units: 2*

Option Requirements

An additional 3-6 units are required to complete the Biochemistry B.A. degree. Student's wishing to take Biochemistry electives (3-6 units) refer to the list below to complete the degree. If a student chooses to pursue the Chemistry Education option (below link) the additional units to complete the degree will be 20 units.

- Biochemistry, B.A. (with additional elective units)
- Biochemistry, Chemistry Education Option, B.A.

Electives (3-6 Units)

Students NOT choosing the Chemistry Education option must select an additional 3-6 units from the following list of upper division chemistry and biology courses to complete the major. *Note: No more than two units of CHEM 4810 or CHEM 4900 or combined can be applied to the upper division chemistry electives.*

- BIOL 3121 - Principles of Genetics *Units: 5*
- BIOL 3151 - Principles of Animal Physiology *Units: 5*
- BIOL 3405 - Microbiology *Units: 6*
- CHEM 3200 - Bioanalytical and Forensic Instrumentation *Units: 4*
- CHEM 4440 - Protein Structure *Units: 3*
- CHEM 4450 - Nucleic Acid Chemistry *Units: 3*
- CHEM 4460 - Major Organ Biochemistry *Units: 3*
- CHEM 4700 - Survey of Chemical Literature *Units: 2*
- CHEM 4810 - Undergraduate Research *Units: 2*
- CHEM 4900 - Independent Study *Units: 1-4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Biochemistry, Chemistry Education Option, B.A.

Department & Faculty Information

Biochemistry (B.A.) 180 units

Program Description

The Department of Chemistry and Biochemistry provides a strong education in chemistry and biochemistry that prepares its students to function and thrive in our society. The department attempts to increase the problem solving and critical thinking skills of all students. Non-science students learn about the scientific and chemical aspects of everyday life that allow them to understand issues related to the environment, energy production, disease prevention, and nutrition. Students of the sciences learn the fundamentals of chemistry that control the interactions of elements and molecules which form the building blocks in nature. Chemistry majors receive extensive instruction in predicting chemical reactivity. Building on an understanding of mathematics, physics, and biology, chemistry majors receive a background in the major disciplines of chemistry including inorganic, analytical, organic, physical, and biochemistry. Students learn the protocols and techniques for working safely with chemicals. The department recognizes the importance of the pursuit of new knowledge in the development of skilled scientists and productive members of society, and encourages its students to participate in research projects and cooperative educational opportunities.

The undergraduate programs offered by the department include: Chemistry, B.S.; Biochemistry, B.S.; Chemistry, Forensic Science Option, B.S.; Chemistry, B.A.; Chemistry, Chemistry Education Option, B.A.; Biochemistry, B.A.; Biochemistry, Chemistry Education Option, B.A.; and a Chemistry Minor. Descriptions of these programs and their requirements are listed below. (See the Department of Chemistry and Biochemistry (Graduate) for descriptions of the department's Chemistry, M.S. and M.S. Option in Biochemistry.)

The Chemistry, B.S. degree is approved by the American Chemical Society (ACS). A certified degree is a valuable credential that serves as national-level recognition for completing a rigorous academic chemistry curriculum in an ACS-approved department. The extra rigor of an ACS certified degree is valued by both potential employers and graduate schools.

Mission Statement

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Student Learning Outcomes

Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:

1. Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
2. Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments.
3. Use quantitative reasoning to analyze chemical problems and evaluate chemical data.
4. Write and speak clearly on chemical or biochemical issues.
5. Work collaboratively in teams to solve chemical problems.

Career Opportunities

Analytical Chemist
Biotechnologist
Biochemist
Biophysicist
Chemical Engineer
Chemist
Dietitian
Environmental Chemist
Food and Drug Inspector
Forensic Chemist
Geochemist
Geophysicist
Health Professional
Materials Scientist
Organic Chemist
Perfumer
Petrologist
Pharmacist
Pharmaceutical Chemist
Physical Chemist
Pollution Control
Professor
Public Health Educator
Quality Control Technician
Teacher
Water Purification Chemist

Features

The Department of Chemistry and Biochemistry employs highly qualified and experienced technical staff to assist faculty and students in their course and research experiences.

The Department of Chemistry and Biochemistry maintains laboratory equipment and instruments typical of comparable institutions. These include a 500 MHz nuclear magnetic resonance (NMR) spectrometer; UV-Visible (diode array), infrared and atomic absorption (AA: flame, graphite furnace and cold vapor) spectrophotometers; high performance liquid chromatograph (HPLC) and ion chromatograph (IC); an FTIR spectrometer; and capillary gas chromatograph/mass spectrometer (GC/MS). Other specialized equipment includes a research-grade dry box, growth chamber, anaerobic chamber, and environmental field sampling equipment. There are PC-controlled and various desktop versions of the HPLC and visible spectrometers. A molecular modeling facility is also available for instruction and research.

The university offers Cooperative Education coursework which provides chemically related employment opportunities and students may, with department approval, obtain credit for this work.

The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. They are active in many aspects of the department and provide free peer tutoring, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

For Advanced Placement course equivalencies, see Registration. Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Major Requirements (B.A.) 93-111 units

The Bachelor of Arts degree, major in Biochemistry, is designed to prepare students for employment in biochemistry, biotechnology, and related fields. It can also be utilized by students as a preparation for professional health-related programs, secondary school teaching, or non-traditional career paths (e.g., computer science, bioinformatics, business administration, and pharmaceutical sales). Students electing to pursue the B.A. in Biochemistry Degree could also earn a minor in another appropriate discipline such as biology. The B.A. degree consists of 180 units.

- The core major consists of 90-91 units;
- the additional elective units for the "no-option" major consists of 3-6 units
- the Chemistry Education Option consists of 20 units
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Lower Division Core (54 units)

The following are required lower division courses in the shared core group for Biochemistry B.A. majors:

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

One of the following:

- CS 1020 Introduction to Computers *Units: 4*
- CS 1080 Introduction to Media Computation *Units: 4*
- CS 1160 Introduction to Computer Science I *Units: 4*

Upper Division Core (36-37 units)

The following are required upper division courses in the shared core group for Biochemistry B.A. majors:

- CHEM 3301 - Organic Chemistry *Units: 5*
- CHEM 3302 - Organic Chemistry *Units: 5*
- CHEM 3303 - Organic Chemistry *Units: 5*

- CHEM 3501 - Biophysical Chemistry *Units: 4*
or CHEM 3511 Physical Chemistry Lecture 3 units (not an option for Chemistry Education Option students)
- CHEM 4411 - General Biochemistry *Units: 4*
- CHEM 4412 - General Biochemistry *Units: 4*
- CHEM 4413 - General Biochemistry *Units: 4*
- CHEM 4430 - General Biochemistry Laboratory *Units: 4*
- CHEM 4431 - Advanced Biochemistry Laboratory *Units: 2*

Option Requirements

An additional 3-6 units are required to complete the Biochemistry B.A. degree. Student's wishing to take Biochemistry electives (3-6 units) refer to the list below to complete the degree. If a student chooses to pursue the Chemistry Education option (below link) the additional units to complete the degree will be 20 units.

- Biochemistry, B.A. (with additional elective units)
- Biochemistry, Chemistry Education Option, B.A.

B.A. Biochemistry, Option in Chemistry Education (20 units)

The Bachelor of Arts degree, major in Biochemistry with an option in Chemistry Education, is designed for students interested in a career teaching chemistry at the high school level, but also prepares students to work as biochemists in an industrial setting. This program will prepare graduates to enter a single subject credential program. The major in Biochemistry with a Chemistry Education option consists of 111 units, the B.A. degree requires a total of 180 units.

Required Courses

Twenty (20) units of required courses for the option:

- CHEM 4400 - Instructional Activities in Chemistry *Units: 2*
- CHEM 4601 - Environmental Chemistry I *Units: 4*
- CHEM 4700 - Survey of Chemical Literature *Units: 2*
- GEOL 1000 - Earth Systems Science *Units: 5*
- PHIL 3335 - Science, Technology and Values *Units: 4*
- TED 3001 - Exploring Education *Units: 3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Chemistry, B.A.

Department & Faculty Information

Chemistry (B.A.) 180 units

Program Description

The Department of Chemistry and Biochemistry provides a strong education in chemistry and biochemistry that prepares its students to function and thrive in our society. The department attempts to increase the problem solving and critical thinking skills of all students. Non-science students learn about the scientific and chemical aspects of everyday life that allow them to understand issues related to the environment, energy production, disease prevention, and nutrition. Students of the sciences learn the fundamentals of chemistry that control the interactions of elements and molecules which form the building blocks in nature. Chemistry majors receive extensive instruction in predicting chemical reactivity. Building on an understanding of mathematics, physics, and biology, chemistry majors receive a background in the major disciplines of chemistry including inorganic, analytical, organic, physical, and biochemistry. Students learn the protocols and techniques for working safely with chemicals. The department recognizes the importance of the pursuit of new knowledge in the development of skilled scientists and productive members of society, and encourages its students to participate in research projects and cooperative educational opportunities.

The undergraduate programs offered by the department include: B.S. degree major in Chemistry; B.S. degree major in Biochemistry; B.S. degree major in Chemistry, option in Forensic Science; B.A. degree major in Chemistry; B.A. degree major in Chemistry, option in Chemistry Education; B.A. degree major in Biochemistry; B.A. degree in Biochemistry, option in Chemistry Education; and a minor in Chemistry. Descriptions of these programs and their requirements are listed below. (See the Graduate section of this catalog for descriptions of the department's M.S. in Chemistry and M.S. Option in Biochemistry.)

The B.S. degree in Chemistry is approved by the American Chemical Society (ACS). A certified degree is a valuable credential that serves as national-level recognition for completing a rigorous academic chemistry curriculum in an ACS-approved department. The extra rigor of an ACS certified degree is valued by both potential employers and graduate schools.

Mission Statement

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Student Learning Outcomes

Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:

1. Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
2. Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments.
3. Use quantitative reasoning to analyze chemical problems and evaluate chemical data.
4. Write and speak clearly on chemical or biochemical issues.
5. Work collaboratively in teams to solve chemical problems.

Career Opportunities

- Analytical Chemist
- Biotechnologist
- Biochemist
- Biophysicist
- Chemical Engineer
- Chemist
- Dietitian
- Environmental Chemist
- Food and Drug Inspector
- Forensic Chemist
- Geochemist
- Geophysicist
- Health Professional
- Materials Scientist
- Organic Chemist
- Perfumer
- Petrologist
- Pharmacist
- Pharmaceutical Chemist
- Physical Chemist
- Pollution Control
- Professor
- Public Health Educator
- Quality Control Technician
- Teacher
- Water Purification Chemist

Features

The Department of Chemistry and Biochemistry employs highly qualified and experienced technical staff to assist faculty and students in their course and research experiences.

The Department of Chemistry and Biochemistry maintains laboratory equipment and instruments typical of comparable institutions. These include a 500 MHz nuclear magnetic resonance (NMR) spectrometer; UV-Visible (diode array), infrared and atomic absorption (AA: flame, graphite furnace and cold vapor) spectrophotometers; high performance liquid chromatograph (HPLC) and ion chromatograph (IC); an FTIR spectrometer; and capillary gas chromatograph/mass spectrometer (GC/MS). Other specialized

equipment includes a research-grade dry box, growth chamber, anaerobic chamber, and environmental field sampling equipment. There are PC-controlled and various desktop versions of the HPLC and visible spectrometers. A molecular modeling facility is also available for instruction and research.

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The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. They are active in many aspects of the department and provide free peer tutoring, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

For Advanced Placement course equivalencies, see Registration chapter. Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Major Requirements (B.A.) 83-100 units

The Bachelor Arts degree, major in Chemistry, is intended for students who would like to use their knowledge of chemistry as a starting point for a career in medicine, molecular biology, dentistry, teaching, environmental remediation, law, or business. Graduate degrees in these fields follow naturally from the undergraduate training required of the chemistry student. The B.A. degree requires a total of 180 units.

- The core major consists of 72-73 units;
- the elective units for the Non- Option consists of 11 units;
- the Chemistry Education Option consists of 27 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Lower Division Core (44 units)

The following are required lower division courses in the shared core group for Chemistry B.A. majors:

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- CHEM 2200 - Quantitative Analysis *Units: 5*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

And choose one (1) of the following:

- CS 1020 - Introduction to Computers *Units: 4*
- CS 1080 - Introduction to Media Computation *Units: 4* **Not for students choosing the option Chemistry Education**
- CS 1160 - Introduction to Computer Science I *Units: 4*

Upper Division Core (28-29 units)

The following are required upper division courses in the shared core group for Chemistry B.A. majors:

- CHEM 3200 - Bioanalytical and Forensic Instrumentation *Units: 4*
- CHEM 3301 - Organic Chemistry *Units: 5*
- CHEM 3302 - Organic Chemistry *Units: 5*
- CHEM 3303 - Organic Chemistry *Units: 5*
- CHEM 3400 - Introductory Biochemistry *Units: 4*
- CHEM 3501 - Biophysical Chemistry *Units: 4*
or CHEM 3511 Physical Chemistry Lecture *Units: 3* **Not for students choosing the option Chemistry Education**
- CHEM 4700 - Survey of Chemical Literature *Units: 2*

Option Requirements

A Chemistry B.A. degree requires that students complete additional coursework to complete the major. Students must choose one (1) of the following:

- Chemistry, B.A. (elective units) non-option
- Chemistry, Chemistry Education Option, B.A.

B.A. Chemistry, Elective Courses (11 units)

Choose 11 units from the following list of upper division chemistry courses to satisfy the degree. **Note:** no more than two units of CHEM 4810 or CHEM 4900 or combined can be applied to the upper division chemistry electives.

- CHEM 4161 - Advanced Inorganic Chemistry *Units: 3*
- CHEM 4162 - Advanced Inorganic Chemistry *Units: 3*
- CHEM 4180 - Inorganic Chemistry Laboratory *Units: 2*
- CHEM 4240 - Instrumental Methods of Analysis *Units: 4*
- CHEM 4311 - Advanced Organic Chemistry *Units: 4*
- CHEM 4601 - Environmental Chemistry I *Units: 4*
- CHEM 4602 - Environmental Chemistry II *Units: 4*
- CHEM 4810 - Undergraduate Research *Units: 2*
- CHEM 4900 - Independent Study *Units: 1-4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Chemistry, Chemistry Education Option, B.A.

Department & Faculty Information

Chemistry (B.A.) 180 units

Program Description

The Department of Chemistry and Biochemistry provides a strong education in chemistry and biochemistry that prepares its students to function and thrive in our society. The department attempts to increase the problem solving and critical thinking skills of all students. Non-science students learn about the scientific and chemical aspects of everyday life that allow them to understand issues related to the environment, energy production, disease prevention, and nutrition. Students of the sciences learn the fundamentals of chemistry that control the interactions of elements and molecules which form the building blocks in nature. Chemistry majors receive extensive instruction in predicting chemical reactivity. Building on an understanding of mathematics, physics, and biology, chemistry majors receive a background in the major disciplines of chemistry including inorganic, analytical, organic, physical, and biochemistry. Students learn the protocols and techniques for working safely with chemicals. The department recognizes the importance of the pursuit of new knowledge in the development of skilled scientists and productive members of society, and encourages its students to participate in research projects and cooperative educational opportunities.

The undergraduate programs offered by the department include: B.S. degree major in Chemistry; B.S. degree major in Biochemistry; B.S. degree major in Chemistry, option in Forensic Science; B.A. degree major in Chemistry; B.A. degree major in Chemistry, option in Chemistry Education; B.A. degree major in Biochemistry; B.A. degree in Biochemistry, option in Chemistry Education; and a minor in Chemistry. Descriptions of these programs and their requirements are listed below. (See the Graduate section of this catalog for descriptions of the department's M.S. in Chemistry and M.S. Option in Biochemistry.)

The B.S. degree in Chemistry is approved by the American Chemical Society (ACS). A certified degree is a valuable credential that serves as national-level recognition for completing a rigorous academic chemistry curriculum in an ACS-approved department. The extra rigor of an ACS certified degree is valued by both potential employers and graduate schools.

Mission Statement

It is imperative that CSUEB chemistry students possess sufficient theoretical and practical training in chemistry and biochemistry so that they will be able to assume the significant technical responsibilities required by the chemical and biotechnology industries that will employ them. It is important that our students are not only trained in chemistry (and biochemistry), but will become respected scientists and

research technicians. In addition, it is important that students planning for entrance into Ph.D. programs or pre-professional programs are more than adequately prepared for entrance into these programs.

Student Learning Outcomes

Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:

1. Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
2. Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments.
3. Use quantitative reasoning to analyze chemical problems and evaluate chemical data.
4. Write and speak clearly on chemical or biochemical issues.
5. Work collaboratively in teams to solve chemical problems.

Career Opportunities

- Analytical Chemist
- Biotechnologist
- Biochemist
- Biophysicist
- Chemical Engineer
- Chemist
- Dietitian
- Environmental Chemist
- Food and Drug Inspector
- Forensic Chemist
- Geochemist
- Geophysicist
- Health Professional
- Materials Scientist
- Organic Chemist
- Perfumer
- Petrologist
- Pharmacist
- Pharmaceutical Chemist
- Physical Chemist
- Pollution Control
- Professor
- Public Health Educator
- Quality Control Technician
- Teacher
- Water Purification Chemist

Features

The Department of Chemistry and Biochemistry employs highly qualified and experienced technical staff to assist faculty and students in their course and research experiences.

The Department of Chemistry and Biochemistry maintains laboratory equipment and instruments typical of comparable institutions. These include a 500 MHz nuclear magnetic resonance (NMR) spectrometer; UV-Visible (diode array), infrared and atomic absorption (AA: flame, graphite furnace and cold vapor) spectrophotometers; high performance liquid chromatograph (HPLC) and ion chromatograph (IC); an FTIR spectrometer; and capillary gas chromatograph/mass spectrometer (GC/MS). Other specialized equipment includes a research-grade dry box, growth chamber, anaerobic chamber, and environmental field sampling equipment. There are PC-controlled and various desktop versions of the HPLC and visible spectrometers. A molecular modeling facility is also available for instruction and research.

The university offers Cooperative Education coursework which provides chemically related employment opportunities and students may, with department approval, obtain credit for this work.

The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. They are active in many aspects of the department and provide free peer tutoring, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

For Advanced Placement course equivalencies, see Registration chapter. Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Major Requirements (B.A.) 83-100 units

The Bachelor Arts degree, major in Chemistry, is intended for students who would like to use their knowledge of chemistry as a starting point for a career in medicine, molecular biology, dentistry, teaching, environmental remediation, law, or business. Graduate degrees in these fields follow naturally from the undergraduate training required of the chemistry student. The B.A. degree requires a total of 180 units.

- The core major consists of 72-73 units;
- the elective units for the Non- Option consists of 11 units;
- the Chemistry Education Option consists of 27 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Lower Division Core (44 units)

The following are required lower division courses in the shared core group for Chemistry B.A. majors:

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- CHEM 2200 - Quantitative Analysis *Units: 5*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units:*

- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

And choose one (1) of the following:

- CS 1020 - Introduction to Computers *Units: 4*
- CS 1080 - Introduction to Media Computation *Units: 4* **Not for students choosing the option Chemistry Education**
- CS 1160 - Introduction to Computer Science I *Units: 4*

Upper Division Core (28-29 units)

The following are required upper division courses in the shared core group for Chemistry B.A. majors:

- CHEM 3200 - Bioanalytical and Forensic Instrumentation *Units: 4*
- CHEM 3301 - Organic Chemistry *Units: 5*
- CHEM 3302 - Organic Chemistry *Units: 5*
- CHEM 3303 - Organic Chemistry *Units: 5*
- CHEM 3400 - Introductory Biochemistry *Units: 4*
- CHEM 3501 - Biophysical Chemistry *Units: 4*
or CHEM 3511 Physical Chemistry Lecture Units: 3 **Not for students choosing the option Chemistry Education**
- CHEM 4700 - Survey of Chemical Literature *Units: 2*

Option Requirements

A Chemistry B.A. degree requires that students complete additional coursework to complete the major. Students must choose one (1) of the following:

- Chemistry, B.A. (elective units) non-option
- Chemistry, Chemistry Education Option, B.A.

B.A. Chemistry, Option in Chemistry Education (27 units)

The Bachelor of Arts degree, major in Chemistry with an option in Chemistry Education, requires an additional 27 units to complete the option and is designed for students interested in a career teaching chemistry at the high school level, but also prepares students to work in the chemical industry. This program prepares graduates to enter a single subject credential program. The major in Chemistry with a Chemistry Education option consists of 100 units; the B.A. degree requires a total of 180 units.

Lower Division Requirements

Ten (10) units required:

- BIOL 1000 - Basic Concepts in Biology *Units: 5*
- GEOL 1000 - Earth Systems Science *Units: 5*

Upper Division Requirements

Seventeen (17) units required:

- CHEM 4400 - Instructional Activities in Chemistry *Units: 2*
- CHEM 4601 - Environmental Chemistry I *Units: 4*
- CHEM 4602 - Environmental Chemistry II *Units: 4*

- PHIL 3335 - Science, Technology and Values *Units: 4*
- TED 3001 - Exploring Education *Units: 3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Bachelor of Science

Biochemistry, B.S.

Department & Faculty Information

Biochemistry (B.S.) 180 units

Program Description

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The undergraduate programs offered by the department include: Chemistry, B.S.; Biochemistry, B.S.; Chemistry, Forensic Science Option, B.S.; Chemistry, B.A.; Chemistry, Chemistry Education Option, B.A.; Biochemistry, B.A.; Biochemistry, Chemistry Education Option, B.A.; and a Chemistry Minor. Descriptions of these programs and their requirements are listed below. (See the Department of Chemistry and Biochemistry (Graduate) for descriptions of the department's Chemistry, M.S. and M.S. Option in Biochemistry.)

The Chemistry, B.S. degree is approved by the American Chemical Society (ACS). A certified degree is a valuable credential that serves as national-level recognition for completing a rigorous academic chemistry curriculum in an ACS-approved department. The extra rigor of an ACS certified degree is valued by both potential employers and graduate schools.

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Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:

1. Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
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Career Opportunities

Analytical Chemist
Biotechnologist
Biochemist
Biophysicist
Chemical Engineer
Chemist
Dietitian
Environmental Chemist
Food and Drug Inspector
Forensic Chemist
Geochemist
Geophysicist
Health Professional
Materials Scientist
Organic Chemist
Perfumer
Petrologist
Pharmacist
Pharmaceutical Chemist
Physical Chemist
Pollution Control

Professor
Public Health Educator
Quality Control Technician
Teacher
Water Purification Chemist

Features

The Department of Chemistry and Biochemistry employs highly qualified and experienced technical staff to assist faculty and students in their course and research experiences.

The Department of Chemistry and Biochemistry maintains laboratory equipment and instruments typical of comparable institutions. These include a 500 MHz nuclear magnetic resonance (NMR) spectrometer; UV-Visible (diode array), infrared and atomic absorption (AA: flame, graphite furnace and cold vapor) spectrophotometers; high performance liquid chromatograph (HPLC) and ion chromatograph (IC); an FTIR spectrometer; and capillary gas chromatograph/mass spectrometer (GC/MS). Other specialized equipment includes a research-grade dry box, growth chamber, anaerobic chamber, and environmental field sampling equipment. There are PC-controlled and various desktop versions of the HPLC and visible spectrometers. A molecular modeling facility is also available for instruction and research.

The university offers Cooperative Education coursework which provides chemically related employment opportunities and students may, with department approval, obtain credit for this work.

The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. They are active in many aspects of the department and provide free peer tutoring, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

For Advanced Placement course equivalencies, see Registration. Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Sample Program

A Sample Program for this degree can be found at the department website:
<http://www20.csueastbay.edu/csci/departments/chemistry/index.html>.

Major Requirements (B.S.) 111-117 units

The Bachelor of Science degree, major in Biochemistry, is designed to prepare students for entrance into graduate programs of biochemistry and medical schools. In addition, students completing this program are prepared to secure employment in the areas of biochemistry, biotechnology and related fields. This program is intended for students desiring the highest degree of technical proficiency in this specialized area at the undergraduate level. Since requirements are subject to change, consult an advisor in your major department for clarification and interpretation of your major requirements. The major consists of 111-117 units, the B.S. degree requires a total of 180 units.

Lower Division Core (59-62 units)

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- CHEM 2200 - Quantitative Analysis *Units: 5*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2304 - Calculus III *Units: 4*

- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*
or
- PHYS 1001 General Physics: Newtonian Mechanics and Oscillations *Units: 5*
- PHYS 1002 General Physics: Thermodynamics and Optics *Units: 5*
- PHYS 1003 General Physics: Electromagnetism *Units: 5*

Upper Division Core (52-55 units)

- CHEM 3301 - Organic Chemistry *Units: 5*
- CHEM 3302 - Organic Chemistry *Units: 5*
- CHEM 3303 - Organic Chemistry *Units: 5*
- CHEM 3511 - Physical Chemistry Lecture *Units: 3*
- CHEM 3512 - Physical Chemistry Lecture *Units: 3*
- CHEM 3513 - Physical Chemistry Lecture *Units: 3*
- CHEM 4411 - General Biochemistry *Units: 4*
- CHEM 4412 - General Biochemistry *Units: 4*
- CHEM 4413 - General Biochemistry *Units: 4*
- CHEM 4430 - General Biochemistry Laboratory *Units: 4*
- CHEM 4431 - Advanced Biochemistry Laboratory *Units: 2*
- STAT 3031 - Statistical Methods in Biology *Units: 4*
or STAT 3502 Statistical Inference I Units: 4

Two courses (6-9 units) chosen from the following:

- BIOL 3121 - Principles of Genetics *Units: 5*
- BIOL 4455 - Molecular Cell Biology *Units: 4*
- CHEM 4240 - Instrumental Methods of Analysis *Units: 4*
- CHEM 4440 - Protein Structure *Units: 3*
- CHEM 4450 - Nucleic Acid Chemistry *Units: 3*
- CHEM 4460 - Major Organ Biochemistry *Units: 3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Chemistry, B.S.

Department & Faculty Information

Chemistry (B.S.) 180 units

Program Description

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Mission Statement

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Student Learning Outcomes

Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:

1. Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
2. Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments.
3. Use quantitative reasoning to analyze chemical problems and evaluate chemical data.
4. Write and speak clearly on chemical or biochemical issues.
5. Work collaboratively in teams to solve chemical problems.

Career Opportunities

- Analytical Chemist
- Biotechnologist
- Biochemist
- Biophysicist
- Chemical Engineer
- Chemist
- Dietitian
- Environmental Chemist
- Food and Drug Inspector
- Forensic Chemist
- Geochemist
- Geophysicist
- Health Professional
- Materials Scientist
- Organic Chemist
- Perfumer
- Petrologist
- Pharmacist
- Pharmaceutical Chemist
- Physical Chemist
- Pollution Control
- Professor
- Public Health Educator
- Quality Control Technician
- Teacher
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Features

The Department of Chemistry and Biochemistry employs highly qualified and experienced technical staff to assist faculty and students in their course and research experiences.

The Department of Chemistry and Biochemistry maintains laboratory equipment and instruments typical of comparable institutions. These include a 500 MHz nuclear magnetic resonance (NMR) spectrometer; UV-Visible (diode array), infrared and atomic absorption (AA: flame, graphite furnace and cold vapor) spectrophotometers; high performance liquid chromatograph (HPLC) and ion chromatograph (IC); an FTIR spectrometer; and capillary gas chromatograph/mass spectrometer (GC/MS). Other specialized equipment includes a research-grade dry box, growth chamber, anaerobic chamber, and environmental field sampling equipment. There are PC-controlled and various desktop versions of the HPLC and visible spectrometers. A molecular modeling facility is also available for instruction and research.

The university offers Cooperative Education coursework which provides chemically related employment opportunities and students may, with department approval, obtain credit for this work.

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Preparation and Prerequisites

For Advanced Placement course equivalencies, see Registration chapter. Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Major Requirements (B.S.) 108-109 units

The Bachelor of Science degree, major in Chemistry, is designed to prepare students for graduate school in Chemistry and related fields and for industrial employment which involves research or a high degree of technical proficiency. It is intended for students desiring the highest degree of specialization. Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.S. degree requires a total of 180 units.

- The core major consists of 57 units;
- the advanced elective for the Non-Option consists of 51-52 units;
- the Forensic Science Option consists of 51 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Lower Division Core (32 units)

The following are required lower division courses in the shared core group for Chemistry B.S. majors:

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- CHEM 2200 - Quantitative Analysis *Units: 5*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*

- MATH 2304 - Calculus III *Units: 4*

Upper Division Core (25 units)

The following are required upper division courses in the shared core group for Chemistry B.S. majors:

- CHEM 3301 - Organic Chemistry *Units: 5*
- CHEM 3302 - Organic Chemistry *Units: 5*
- CHEM 3303 - Organic Chemistry *Units: 5*
- CHEM 3511 - Physical Chemistry Lecture *Units: 3*
- CHEM 3512 - Physical Chemistry Lecture *Units: 3*
- CHEM 4240 - Instrumental Methods of Analysis *Units: 4*

Option Requirements

An additional 51-52 units are required to complete the Chemistry B.S. degree. Refer to the list below for the remaining degree requirements. If a student chooses to pursue the Forensic Science option (below link) the additional units to complete the degree will be 55 units.

- Chemistry, Forensic Science Option, B.S.
- Chemistry, B.S. (Advanced Chemistry Electives)

Advanced Chemistry Electives 51-52 Units

An additional 51-52 units are required to complete the Chemistry B.S. degree if not choosing the option in Forensic Science.

Required Courses (42 units)

- CS 1020 - Introduction to Computers *Units: 4*
or CS 1080 Introduction to Media Computation
or CS 1160 Introduction to Computer Science I
- MATH 2101 - Elements of Linear Algebra *Units: 4*
- PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations *Units: 5*
- PHYS 1002 - General Physics: Thermodynamics and Optics *Units: 5*
- PHYS 1003 - General Physics: Electromagnetism *Units: 5*
- CHEM 3513 - Physical Chemistry Lecture *Units: 3*
- CHEM 3531 - Physical Chemistry Laboratory *Units: 2*
- CHEM 3532 - Physical Chemistry Laboratory *Units: 2*
- CHEM 4161 - Advanced Inorganic Chemistry *Units: 3*
- CHEM 4162 - Advanced Inorganic Chemistry *Units: 3*
- CHEM 4180 - Inorganic Chemistry Laboratory *Units: 2*
- CHEM 4411 - General Biochemistry *Units: 4*
or CHEM 3400 Introductory Biochemistry

Elective Units (9-10 units)

Note: No more than four units of CHEM 4810 and 4811 and 4900 combined may be applied to the electives for the B.S. degree major. Graduate courses (numbered 6000 or above) may be taken to satisfy this requirement.

At least one course chosen from the following:

- CHEM 4311 - Advanced Organic Chemistry *Units: 4*
- CHEM 4430 - General Biochemistry Laboratory *Units: 4*
- CHEM 4521 - Elements of Chemical Thermodynamics *Units: 4*

Additional courses chosen from the above list or from the following:

- CHEM 4412 - General Biochemistry *Units: 4*
- CHEM 4413 - General Biochemistry *Units: 4*
- CHEM 4601 - Environmental Chemistry I *Units: 4*
- CHEM 4602 - Environmental Chemistry II *Units: 4*
- CHEM 4700 - Survey of Chemical Literature *Units: 2*
- CHEM 4810 - Undergraduate Research *Units: 2*
- CHEM 4811 - Senior Thesis *Units: 2*
- CHEM 4900 - Independent Study *Units: 1-4*

Course Descriptions

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Other Undergraduate Degree Requirements

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Chemistry, Forensic Science Option, B.S.

Department & Faculty Information

Chemistry (B.S.) 180 units

Program Description

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- the advanced elective for the Non-Option consists of 51-52 units;
- the Forensic Science Option consists of 51 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Lower Division Core (32 units)

The following are required lower division courses in the shared core group for Chemistry B.S. majors:

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- CHEM 2200 - Quantitative Analysis *Units: 5*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2304 - Calculus III *Units: 4*

Upper Division Core (25 units)

The following are required upper division courses in the shared core group for Chemistry B.S. majors:

- CHEM 3301 - Organic Chemistry *Units: 5*
- CHEM 3302 - Organic Chemistry *Units: 5*
- CHEM 3303 - Organic Chemistry *Units: 5*
- CHEM 3511 - Physical Chemistry Lecture *Units: 3*
- CHEM 3512 - Physical Chemistry Lecture *Units: 3*
- CHEM 4240 - Instrumental Methods of Analysis *Units: 4*

Option Requirements

An additional 51-52 units are required to complete the Chemistry B.S. degree. Refer to the list below for the remaining degree requirements. If a student chooses to pursue the Forensic Science option (below link) the additional units to complete the degree will be 55 units.

- Chemistry, Forensic Science Option, B.S.
- Chemistry, B.S. (Advanced Chemistry Electives)

B.S. Chemistry, Option in Forensic Science (51 units)

The Bachelor of Science degree, major in Chemistry with an option in Forensic Science, is designed to prepare students for careers as forensic chemists. This program also provides students with the necessary background to pursue graduate study in forensic science.

Lower Division Requirements

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- CRJA 2200 - Basic Criminal Investigation *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Upper Division Requirements

- BIOL 3121 - Principles of Genetics *Units: 5*
- BIOL 4485 - PCR, DNA Sequencing and Fragment Analysis *Units: 4*
- BIOL 4830 - Seminar in Forensic Research *Units: 1*
- CHEM 3200 - Bioanalytical and Forensic Instrumentation *Units: 4*
- CHEM 3400 - Introductory Biochemistry *Units: 4*
- CHEM 4830 - Seminar in Forensic Research *Units: 1*
- CRJA 3800 - Comparative Evidence and Its Evaluation *Units: 4*
- CRJA 4830 - Seminar in Forensic Research *Units: 1*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Science

Chemistry, Plan A Biochemistry Option, M.S.

Department & Faculty Information

Chemistry (M.S.) 45 units

The Master of Science degree provides students with advanced training in chemistry and the analytical skills needed to process and critique complex chemical information. Students may take most of the required coursework in chemistry or may choose a biochemistry option, with some required courses in chemistry and a specialization in biochemistry. The degree program mainly serves students in four categories: those seeking opportunities in the chemical industry requiring training beyond the baccalaureate level, fully employed chemists who wish to enhance their career potential, future teachers of high school or community college chemistry, and individuals contemplating more advanced graduate study.

Because of the rapid progress in the fields of chemistry and biochemistry, the department strives to offer a range of courses that cover not only established principles but also recent advances. Through laboratory-based coursework and research opportunities, students are prepared for new developments in experimental methods and instrumentation. They acquire experience reading and analyzing the chemical or biochemical literature in several courses, as well as through a research-based laboratory or computational project (Plan A) or by developing a written literature review (Plan B).

Student Learning Outcomes

Students graduating with a Master of Science in Chemistry will be able to:

1. Demonstrate specialized knowledge in the chemical sciences beyond the undergraduate level;
2. Work effectively and safely in a laboratory environment using modern chemical/biochemical instrumentation and methods to test hypotheses or design solutions to problems;
3. Understand, organize, and critically assess information from the chemical literature
4. Present complex chemical information via oral and written reports
5. Work collaboratively in teams to solve chemical problems

Faculty

The Department of Chemistry and Biochemistry has nine full-time faculty members; each has a Ph.D. degree. Most came to Cal State East Bay with postdoctoral experience either in academia or industry, or both. Added breadth of experience is provided by occasional visiting lecturers in graduate lecture courses.

Facilities

The laboratories are modern and well-equipped. Major instrumentation includes a 500 MHz nuclear magnetic resonance spectrometer (NMR), capillary gas chromatographs with both flame-ionization and mass-spectral detection (GC/MS), a fourier-transform infrared spectrophotometer (FTIR), an atomic absorption spectrophotometer (AA) with graphite furnace and cold vapor attachments, high performance liquid chromatograph (HPLC), ion chromatograph (IC), x-ray fluorescence spectrometer, and a diode-array visible-ultraviolet spectrophotometer that can be adapted for stopped-flow kinetics studies. A molecular modeling facility is available for instruction and research.

The department is served by an office staff of a department secretary and a part-time clerical assistant, and by a staff of four full-time technicians and one part-time person.

Additional Information

The masters' degree program is under the nominal direction of the graduate coordinator, with the participation of the department's Graduate Studies Committee. All inquiries should be directed to the graduate coordinator or to the department chair.

Admission Requirements

The basic requirements for entry into the program are possession of a baccalaureate degree in Chemistry or Biochemistry, including a year of physical chemistry, and a GPA of at least 2.6 in upper division chemistry and biochemistry courses. Applicants not meeting the GPA requirement may still be accepted subject to receipt of acceptable letters of recommendation. The GRE subject test in chemistry or biochemistry is required. Applicants not having an undergraduate major in chemistry or biochemistry may be accepted into the program depending on the amount of undergraduate coursework required to remove deficiencies.

Qualified applicants are accepted in "Conditionally Classified Graduate" status. To become fully "Classified Graduate," students must pass placement tests in organic, physical, and one of analytical, inorganic, or biochemistry; remove any deficiencies in the undergraduate major, complete 12 units applicable to the degree, and satisfy the University Writing Skills Requirement (UWSR).

Plan A, Thesis

A university thesis is required both for the M.S. Chemistry, Plan A and the M.S. Chemistry, Option in Biochemistry, Plan A degrees. A thesis topic is decided by mutual agreement between a graduate student and an appropriate faculty member.

Off-Campus Research

Candidates whose employers permit the use of appropriate facilities and approve the release of the applicable findings may arrange to conduct research on their employers' premises in support of their M.S. theses, subject to prior approval by the department.

Plan B, Comprehensive Examination

Plan B entails the completion of additional specified coursework in lieu of a thesis and completion of a significant literature search and report on a selected topic. Applicants must pass a comprehensive examination which consists of an oral portion covering the report of the literature search and a written portion covering all other coursework applied to the degree.

Advancement to Candidacy

In order to progress in the program, a student must pass or obtain a waiver for the placement exams. A waiver is usually obtained by enrolling in an undergraduate course covering appropriate material. The exams must be completed within one year of entry into the Department of Chemistry and Biochemistry. Additionally, students must satisfy the University Writing Skills Requirement and qualify for "Classified Graduate" status within two years of admission.

Advancement to Candidacy requires that the student complete 12 units in 6000-level courses applicable towards the degree with an average grade of 3.0 or better and select a research advisor for the thesis or a supervisor for the Plan B literature search and comprehensive examination.

Curricular Requirements

The M.S. programs in Chemistry provide for the degree to be obtained under Chemistry or Chemistry, Option in Biochemistry. Under either program, Plan A (University Thesis) or Plan B (Comprehensive Exam) must be selected.

Program Options (45 units)

Within the Chemistry degree, candidates will choose one (1) of four courses of study:

- Chemistry, Plan A Option, M.S. (university thesis required)
- Chemistry, Plan B Option, M.S. (literature review paper and passing terminal written and oral exams required)
- Chemistry, Plan A Biochemistry Option, M.S. (university theses required)
- Chemistry, Plan B Biochemistry Option, M.S. (literature review paper and passing terminal written and oral exams required)

Biochemistry (Plan A) Option

To be eligible for the Option in Biochemistry, M.S. in Chemistry, the student must satisfy the following departmental requirements:

Required Courses (19 units)

Complete a total of 19 units in required courses in Chemistry comprising the following:

- CHEM 6410 - Advanced Topics in Biochemistry *Units: 3*
- CHEM 6430 - Protein Chemistry Techniques *Units: 4*
- CHEM 6820 - Seminar *Units: 1 (times three for 3 units)*
- CHEM 6830 - Research *Units: 1-5 (times two for 6 units)*
- CHEM 6850 - Methods of Graduate Research *Units: 3*

CHEM Electives (6 units)

Complete a minimum of six units from the following courses:

Note: Additional units must be selected to replace any courses in the required courses and CHEM electives that were taken as an undergraduate.

At least one of:

- CHEM 4521 - Elements of Chemical Thermodynamics *Units: 4*
- CHEM 6521 - The Chemical Bond *Units: 3*

And any of the following:

- CHEM 6310 - Advanced Topics in Organic Chemistry *Units: 3*

- CHEM 6410 - Advanced Topics in Biochemistry *Units: 3*
- CHEM 6510 - Advanced Topics in Physical Chemistry *Units: 3*

Other Electives (17 units)

Complete additional units to total the minimum 45 units required -- to be selected, with the approval of the student's advisor, from additional graduate courses in chemistry and biochemistry or from the list of upper division chemistry courses acceptable for the M.S. Chemistry, Biochemistry Option, Plan A degree. No more than four units of 6900 and three units of 6830 may be included. A maximum of ten units from applicable courses in Biological Sciences may be selected from the following:

- BIOL 4450 Cell Culture Techniques *Units:4*
 - BIOL 4490 Bioinformatics *Units:4*
 - BIOL 6141 Advanced Molecular Techniques *Units:4*
 - BIOL 6151 Cell and Molecular Biology I *Units:5*
 - BIOL 6152 Cell and Molecular Biology II *Units:5*
- Upper Division Chemistry Courses Acceptable for the M.S. Chemistry, Biochemistry Option, Plan A Degree:*
- CHEM 3531 - Physical Chemistry Laboratory *Units: 2*
 - CHEM 3532 - Physical Chemistry Laboratory *Units: 2*
 - CHEM 4161 - Advanced Inorganic Chemistry *Units: 3*
 - CHEM 4162 - Advanced Inorganic Chemistry *Units: 3*
 - CHEM 4180 - Inorganic Chemistry Laboratory *Units: 2*
 - CHEM 4240 - Instrumental Methods of Analysis *Units: 4*
 - CHEM 4311 - Advanced Organic Chemistry *Units: 4*
 - CHEM 4400 - Instructional Activities in Chemistry *Units: 2*
 - CHEM 4450 - Nucleic Acid Chemistry *Units: 3*
 - CHEM 4460 - Major Organ Biochemistry *Units: 3*
 - CHEM 4601 - Environmental Chemistry I *Units: 4*
 - CHEM 4602 - Environmental Chemistry II *Units: 4*
 - CHEM 4700 - Survey of Chemical Literature *Units: 2*

Capstone Plan A (3 units)

Submit to the department an acceptable master's degree thesis (University Thesis).

- CHEM 6910 - University Thesis *Units: 1-3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00

grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Chemistry, Plan A Option, M.S.

Department & Faculty Information

Chemistry (M.S.) 45 units

The Master of Science degree provides students with advanced training in chemistry and the analytical skills needed to process and critique complex chemical information. Students may take most of the required coursework in chemistry or may choose a biochemistry option, with some required courses in chemistry and a specialization in biochemistry. The degree program mainly serves students in four categories: those seeking opportunities in the chemical industry requiring training beyond the baccalaureate level, fully employed chemists who wish to enhance their career potential, future teachers of high school or community college chemistry, and individuals contemplating more advanced graduate study.

Because of the rapid progress in the fields of chemistry and biochemistry, the department strives to offer a range of courses that cover not only established principles but also recent advances. Through laboratory-based coursework and research opportunities, students are prepared for new developments in experimental methods and instrumentation. They acquire experience reading and analyzing the chemical or biochemical literature in several courses, as well as through a research-based laboratory or computational project (Plan A) or by developing a written literature review (Plan B).

Student Learning Outcomes

Students graduating with a Master of Science in Chemistry will be able to:

1. Demonstrate specialized knowledge in the chemical sciences beyond the undergraduate level;
2. Work effectively and safely in a laboratory environment using modern chemical/biochemical instrumentation and methods to test hypotheses or design solutions to problems;
3. Understand, organize, and critically assess information from the chemical literature
4. Present complex chemical information via oral and written reports
5. Work collaboratively in teams to solve chemical problems

Faculty

The Department of Chemistry and Biochemistry has nine full-time faculty members; each has a Ph.D. degree. Most came to Cal State East Bay with postdoctoral experience either in academia or industry, or both. Added breadth of experience is provided by occasional visiting lecturers in graduate lecture courses.

Facilities

The laboratories are modern and well-equipped. Major instrumentation includes a 500 MHz nuclear magnetic resonance spectrometer (NMR), capillary gas chromatographs with both flame-ionization and mass-spectral detection (GC/MS), a fourier-transform infrared spectrophotometer (FTIR), an atomic absorption spectrophotometer (AA) with graphite furnace and cold vapor attachments, high performance

liquid chromatograph (HPLC), ion chromatograph (IC), x-ray fluorescence spectrometer, and a diode-array visible-ultraviolet spectrophotometer that can be adapted for stopped-flow kinetics studies. A molecular modeling facility is available for instruction and research.

The department is served by an office staff of a department secretary and a part-time clerical assistant, and by a staff of four full-time technicians and one part-time person.

Additional Information

The masters' degree program is under the nominal direction of the graduate coordinator, with the participation of the department's Graduate Studies Committee. All inquiries should be directed to the graduate coordinator or to the department chair.

Admission Requirements

The basic requirements for entry into the program are possession of a baccalaureate degree in Chemistry or Biochemistry, including a year of physical chemistry, and a GPA of at least 2.6 in upper division chemistry and biochemistry courses. Applicants not meeting the GPA requirement may still be accepted subject to receipt of acceptable letters of recommendation. The GRE subject test in chemistry or biochemistry is required. Applicants not having an undergraduate major in chemistry or biochemistry may be accepted into the program depending on the amount of undergraduate coursework required to remove deficiencies.

Qualified applicants are accepted in "Conditionally Classified Graduate" status. To become fully "Classified Graduate," students must pass placement tests in organic, physical, and one of analytical, inorganic, or biochemistry; remove any deficiencies in the undergraduate major, complete 12 units applicable to the degree, and satisfy the University Writing Skills Requirement (UWSR).

Plan A, Thesis

A university thesis is required both for the M.S. Chemistry, Plan A and the M.S. Chemistry, Option in Biochemistry, Plan A degrees. A thesis topic is decided by mutual agreement between a graduate student and an appropriate faculty member.

Off-Campus Research

Candidates whose employers permit the use of appropriate facilities and approve the release of the applicable findings may arrange to conduct research on their employers' premises in support of their M.S. theses, subject to prior approval by the department.

Plan B, Comprehensive Examination

Plan B entails the completion of additional specified coursework in lieu of a thesis and completion of a significant literature search and report on a selected topic. Applicants must pass a comprehensive examination which consists of an oral portion covering the report of the literature search and a written portion covering all other coursework applied to the degree.

Advancement to Candidacy

In order to progress in the program, a student must pass or obtain a waiver for the placement exams. A waiver is usually obtained by enrolling in an undergraduate course covering appropriate material. The exams must be completed within one year of entry into the Department of Chemistry and Biochemistry. Additionally, students must satisfy the University Writing Skills Requirement and qualify for "Classified Graduate" status within two years of admission.

Advancement to Candidacy requires that the student complete 12 units in 6000-level courses applicable towards the degree with an average grade of 3.0 or better and select a research advisor for the thesis or a supervisor for the Plan B literature search and comprehensive examination.

Curricular Requirements

The M.S. programs in Chemistry provide for the degree to be obtained under Chemistry or Chemistry, Option in Biochemistry. Under either program, Plan A (University Thesis) or Plan B (Comprehensive Exam) must be selected.

Program Options (45 units)

Within the Chemistry degree, candidates will choose one (1) of four courses of study:

- Chemistry, Plan A Option, M.S. (university thesis required)
- Chemistry, Plan B Option, M.S. (literature review paper and passing terminal written and oral exams required)
- Chemistry, Plan A Biochemistry Option, M.S. (university theses required)
- Chemistry, Plan B Biochemistry Option, M.S. (literature review paper and passing terminal written and oral exams required)

Chemistry Plan A Option

In order to be eligible for the degree, the student must satisfy the following departmental requirements:

Required Courses (19 units)

Complete the 19 units required:

- CHEM 4521 - Elements of Chemical Thermodynamics *Units: 4*
- CHEM 6521 - The Chemical Bond *Units: 3*
- CHEM 6820 - Seminar *Units: 1 (three times for 3 units)*
- CHEM 6830 - Research *Units: 1-5 (two times for 6 units)*
- CHEM 6850 - Methods of Graduate Research *Units: 3*

Advanced Topics Courses (9 units)

Complete a minimum of nine (9) units from the Advanced Topics courses:

- CHEM 6310 - Advanced Topics in Organic Chemistry *Units: 3*
- CHEM 6510 - Advanced Topics in Physical Chemistry *Units: 3*

Electives (14 units)

Complete additional units to total the minimum 45 units required--to be selected, with the approval of the student's advisor, from additional graduate courses in chemistry or biochemistry, or from the list of upper division courses in chemistry acceptable for the M.S. Chemistry, Plan A degree. No more than four units of 6900 and three units of 6830 may be included. A maximum of six units from applicable courses in related fields may be included (e.g., in physics, geological sciences, or mathematics), and additional units must be taken to replace any courses in (1) or (2) above that were taken as an undergraduate.

Upper Division Chemistry Courses Acceptable for the M.S. Chemistry, Plan A Degree:

- CHEM 4161 - Advanced Inorganic Chemistry *Units: 3*
- CHEM 4162 - Advanced Inorganic Chemistry *Units: 3*
- CHEM 4180 - Inorganic Chemistry Laboratory *Units: 2*
- CHEM 4240 - Instrumental Methods of Analysis *Units: 4*
- CHEM 4311 - Advanced Organic Chemistry *Units: 4*
- CHEM 4411 - General Biochemistry *Units: 4*
- CHEM 4412 - General Biochemistry *Units: 4*
- CHEM 4413 - General Biochemistry *Units: 4*
- CHEM 4430 - General Biochemistry Laboratory *Units: 4*
- CHEM 4431 - Advanced Biochemistry Laboratory *Units: 2*
- CHEM 4440 - Protein Structure *Units: 3*
- CHEM 4450 - Nucleic Acid Chemistry *Units: 3*
- CHEM 4460 - Major Organ Biochemistry *Units: 3*
- CHEM 4601 - Environmental Chemistry I *Units: 4*
- CHEM 4602 - Environmental Chemistry II *Units: 4*
- CHEM 4700 - Survey of Chemical Literature *Units: 2*
- CHEM 6430 - Protein Chemistry Techniques *Units: 4*

Capstone Plan A (3 units)

Submit to the department an acceptable master's degree thesis (University Thesis).

- CHEM 6910 - University Thesis *Units: 1-3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the

University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Chemistry, Plan B Biochemistry Option, M.S.

Department & Faculty Information

Chemistry (M.S.) 45 units

The Master of Science degree provides students with advanced training in chemistry and the analytical skills needed to process and critique complex chemical information. Students may take most of the required coursework in chemistry or may choose a biochemistry option, with some required courses in chemistry and a specialization in biochemistry. The degree program mainly serves students in four categories: those seeking opportunities in the chemical industry requiring training beyond the baccalaureate level, fully employed chemists who wish to enhance their career potential, future teachers of high school or community college chemistry, and individuals contemplating more advanced graduate study.

Because of the rapid progress in the fields of chemistry and biochemistry, the department strives to offer a range of courses that cover not only established principles but also recent advances. Through laboratory-based coursework and research opportunities, students are prepared for new developments in experimental methods and instrumentation. They acquire experience reading and analyzing the chemical or biochemical literature in several courses, as well as through a research-based laboratory or computational project (Plan A) or by developing a written literature review (Plan B).

Student Learning Outcomes

Students graduating with a Master of Science in Chemistry will be able to:

1. Demonstrate specialized knowledge in the chemical sciences beyond the undergraduate level;
2. Work effectively and safely in a laboratory environment using modern chemical/biochemical instrumentation and methods to test hypotheses or design solutions to problems;
3. Understand, organize, and critically assess information from the chemical literature
4. Present complex chemical information via oral and written reports
5. Work collaboratively in teams to solve chemical problems

Faculty

The Department of Chemistry and Biochemistry has nine full-time faculty members; each has a Ph.D. degree. Most came to Cal State East Bay with postdoctoral experience either in academia or industry, or both. Added breadth of experience is provided by occasional visiting lecturers in graduate lecture courses.

Facilities

The laboratories are modern and well-equipped. Major instrumentation includes a 500 MHz nuclear magnetic resonance spectrometer (NMR), capillary gas chromatographs with both flame-ionization and mass-spectral detection (GC/MS), a fourier-transform infrared spectrophotometer (FTIR), an atomic absorption spectrophotometer (AA) with graphite furnace and cold vapor attachments, high performance liquid chromatograph (HPLC), ion chromatograph (IC), x-ray fluorescence spectrometer, and a diode-

array visible-ultraviolet spectrophotometer that can be adapted for stopped-flow kinetics studies. A molecular modeling facility is available for instruction and research.

The department is served by an office staff of a department secretary and a part-time clerical assistant, and by a staff of four full-time technicians and one part-time person.

Additional Information

The masters' degree program is under the nominal direction of the graduate coordinator, with the participation of the department's Graduate Studies Committee. All inquiries should be directed to the graduate coordinator or to the department chair.

Admission Requirements

The basic requirements for entry into the program are possession of a baccalaureate degree in Chemistry or Biochemistry, including a year of physical chemistry, and a GPA of at least 2.6 in upper division chemistry and biochemistry courses. Applicants not meeting the GPA requirement may still be accepted subject to receipt of acceptable letters of recommendation. The GRE subject test in chemistry or biochemistry is required. Applicants not having an undergraduate major in chemistry or biochemistry may be accepted into the program depending on the amount of undergraduate coursework required to remove deficiencies.

Qualified applicants are accepted in "Conditionally Classified Graduate" status. To become fully "Classified Graduate," students must pass placement tests in organic, physical, and one of analytical, inorganic, or biochemistry; remove any deficiencies in the undergraduate major, complete 12 units applicable to the degree, and satisfy the University Writing Skills Requirement (UWSR).

Plan A, Thesis

A university thesis is required both for the M.S. Chemistry, Plan A and the M.S. Chemistry, Option in Biochemistry, Plan A degrees. A thesis topic is decided by mutual agreement between a graduate student and an appropriate faculty member.

Off-Campus Research

Candidates whose employers permit the use of appropriate facilities and approve the release of the applicable findings may arrange to conduct research on their employers' premises in support of their M.S. theses, subject to prior approval by the department.

Plan B, Comprehensive Examination

Plan B entails the completion of additional specified coursework in lieu of a thesis and completion of a significant literature search and report on a selected topic. Applicants must pass a comprehensive examination which consists of an oral portion covering the report of the literature search and a written portion covering all other coursework applied to the degree.

Advancement to Candidacy

In order to progress in the program, a student must pass or obtain a waiver for the placement exams. A waiver is usually obtained by enrolling in an undergraduate course covering appropriate material. The exams must be completed within one year of entry into the Department of Chemistry and Biochemistry. Additionally, students must satisfy the University Writing Skills Requirement and qualify for "Classified Graduate" status within two years of admission.

Advancement to Candidacy requires that the student complete 12 units in 6000-level courses applicable towards the degree with an average grade of 3.0 or better and select a research advisor for the thesis or a supervisor for the Plan B literature search and comprehensive examination.

Curricular Requirements

The M.S. programs in Chemistry provide for the degree to be obtained under Chemistry or Chemistry, Option in Biochemistry. Under either program, Plan A (University Thesis) or Plan B (Comprehensive Exam) must be selected.

Program Options (45 units)

Within the Chemistry degree, candidates will choose one (1) of four courses of study:

- Chemistry, Plan A Option, M.S. (university thesis required)
- Chemistry, Plan B Option, M.S. (literature review paper and passing terminal written and oral exams required)
- Chemistry, Plan A Biochemistry Option, M.S. (university theses required)
- Chemistry, Plan B Biochemistry Option, M.S. (literature review paper and passing terminal written and oral exams required)

Biochemistry (Plan B) Option

Prerequisite: One year of undergraduate biochemistry.

Required Courses (23 units)

Note: Additional units must be taken to replace any courses in the prerequisites or the following required courses that were taken as an undergraduate.

- CHEM 4240 - Instrumental Methods of Analysis *Units: 4*
- CHEM 4700 - Survey of Chemical Literature *Units: 2*
- CHEM 6430 - Protein Chemistry Techniques *Units: 4*
- CHEM 6521 - The Chemical Bond *Units: 3*
or CHEM 4521 Elements of Chemical Thermodynamics
- CHEM 6820 - Seminar *Units: 1 (times three for 3 units)*
- CHEM 6850 - Methods of Graduate Research *Units: 3*

Advanced Topics Courses (12 units)

Complete a minimum of 12 units from the Advanced Topics courses:

- CHEM 6310 - Advanced Topics in Organic Chemistry *Units: 3*
- CHEM 6410 - Advanced Topics in Biochemistry *Units: 3*
- CHEM 6510 - Advanced Topics in Physical Chemistry *Units: 3*

Elective Courses (8 units)

Complete additional units to total the minimum 45 units required--to be selected, with the approval of the student's advisor, from additional graduate courses in chemistry and biochemistry or from the list of upper division chemistry courses acceptable for the M.S. Chemistry, Biochemistry Option, Plan B degree. No more than two units of 6900 and none of 6830 or 6910 may be included. A maximum of ten units from applicable courses in Biological Sciences may be selected from the following:

- BIOL 4450 Cell Culture Techniques
 - BIOL 4490 Bioinformatics
 - BIOL 6141 Advanced Molecular Techniques
 - BIOL 6151 Cell and Molecular Biology I
 - BIOL 6152 Cell and Molecular Biology II
- Upper Division Chemistry Courses Acceptable for the M.S. Chemistry, Biochemistry Option, Plan B Degree:*
- CHEM 3531 - Physical Chemistry Laboratory *Units: 2*
 - CHEM 3532 - Physical Chemistry Laboratory *Units: 2*
 - CHEM 4161 - Advanced Inorganic Chemistry *Units: 3*
 - CHEM 4162 - Advanced Inorganic Chemistry *Units: 3*
 - CHEM 4180 - Inorganic Chemistry Laboratory *Units: 2*
 - CHEM 4311 - Advanced Organic Chemistry *Units: 4*
 - CHEM 4440 - Protein Structure *Units: 3*
 - CHEM 4450 - Nucleic Acid Chemistry *Units: 3*
 - CHEM 4460 - Major Organ Biochemistry *Units: 3*
 - CHEM 4601 - Environmental Chemistry I *Units: 4*
 - CHEM 4602 - Environmental Chemistry II *Units: 4*

Capstone Plan B (2 units)

Complete a literature review paper and pass a comprehensive examination consisting of an oral portion covering the review paper and a written portion covering coursework applied to the degree (Comprehensive Review).

- CHEM 6901 - Comprehensive Review *Units: 2*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five

year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Chemistry, Plan B Option, M.S.

Department & Faculty Information

Chemistry (M.S.) 45 units

The Master of Science degree provides students with advanced training in chemistry and the analytical skills needed to process and critique complex chemical information. Students may take most of the required coursework in chemistry or may choose a biochemistry option, with some required courses in chemistry and a specialization in biochemistry. The degree program mainly serves students in four categories: those seeking opportunities in the chemical industry requiring training beyond the baccalaureate level, fully employed chemists who wish to enhance their career potential, future teachers of high school or community college chemistry, and individuals contemplating more advanced graduate study.

Because of the rapid progress in the fields of chemistry and biochemistry, the department strives to offer a range of courses that cover not only established principles but also recent advances. Through laboratory-based coursework and research opportunities, students are prepared for new developments in experimental methods and instrumentation. They acquire experience reading and analyzing the chemical or biochemical literature in several courses, as well as through a research-based laboratory or computational project (Plan A) or by developing a written literature review (Plan B).

Student Learning Outcomes

Students graduating with a Master of Science in Chemistry will be able to:

1. Demonstrate specialized knowledge in the chemical sciences beyond the undergraduate level;
2. Work effectively and safely in a laboratory environment using modern chemical/biochemical instrumentation and methods to test hypotheses or design solutions to problems;
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5. Work collaboratively in teams to solve chemical problems

Faculty

The Department of Chemistry and Biochemistry has nine full-time faculty members; each has a Ph.D. degree. Most came to Cal State East Bay with postdoctoral experience either in academia or industry, or both. Added breadth of experience is provided by occasional visiting lecturers in graduate lecture courses.

Facilities

The laboratories are modern and well-equipped. Major instrumentation includes a 500 MHz nuclear magnetic resonance spectrometer (NMR), capillary gas chromatographs with both flame-ionization and mass-spectral detection (GC/MS), a fourier-transform infrared spectrophotometer (FTIR), an atomic

absorption spectrophotometer (AA) with graphite furnace and cold vapor attachments, high performance liquid chromatograph (HPLC), ion chromatograph (IC), x-ray fluorescence spectrometer, and a diode-array visible-ultraviolet spectrophotometer that can be adapted for stopped-flow kinetics studies. A molecular modeling facility is available for instruction and research.

The department is served by an office staff of a department secretary and a part-time clerical assistant, and by a staff of four full-time technicians and one part-time person.

Additional Information

The masters' degree program is under the nominal direction of the graduate coordinator, with the participation of the department's Graduate Studies Committee. All inquiries should be directed to the graduate coordinator or to the department chair.

Admission Requirements

The basic requirements for entry into the program are possession of a baccalaureate degree in Chemistry or Biochemistry, including a year of physical chemistry, and a GPA of at least 2.6 in upper division chemistry and biochemistry courses. Applicants not meeting the GPA requirement may still be accepted subject to receipt of acceptable letters of recommendation. The GRE subject test in chemistry or biochemistry is required. Applicants not having an undergraduate major in chemistry or biochemistry may be accepted into the program depending on the amount of undergraduate coursework required to remove deficiencies.

Qualified applicants are accepted in "Conditionally Classified Graduate" status. To become fully "Classified Graduate," students must pass placement tests in organic, physical, and one of analytical, inorganic, or biochemistry; remove any deficiencies in the undergraduate major, complete 12 units applicable to the degree, and satisfy the University Writing Skills Requirement (UWSR).

Plan A, Thesis

A university thesis is required both for the M.S. Chemistry, Plan A and the M.S. Chemistry, Option in Biochemistry, Plan A degrees. A thesis topic is decided by mutual agreement between a graduate student and an appropriate faculty member.

Off-Campus Research

Candidates whose employers permit the use of appropriate facilities and approve the release of the applicable findings may arrange to conduct research on their employers' premises in support of their M.S. theses, subject to prior approval by the department.

Plan B, Comprehensive Examination

Plan B entails the completion of additional specified coursework in lieu of a thesis and completion of a significant literature search and report on a selected topic. Applicants must pass a comprehensive examination which consists of an oral portion covering the report of the literature search and a written portion covering all other coursework applied to the degree.

Advancement to Candidacy

In order to progress in the program, a student must pass or obtain a waiver for the placement exams. A waiver is usually obtained by enrolling in an undergraduate course covering appropriate material. The exams must be completed within one year of entry into the Department of Chemistry and Biochemistry. Additionally, students must satisfy the University Writing Skills Requirement and qualify for "Classified Graduate" status within two years of admission.

Advancement to Candidacy requires that the student complete 12 units in 6000-level courses applicable towards the degree with an average grade of 3.0 or better and select a research advisor for the thesis or a supervisor for the Plan B literature search and comprehensive examination.

Curricular Requirements

The M.S. programs in Chemistry provide for the degree to be obtained under Chemistry or Chemistry, Option in Biochemistry. Under either program, Plan A (University Thesis) or Plan B (Comprehensive Exam) must be selected.

Program Options (45 units)

Within the Chemistry degree, candidates will choose one (1) of four courses of study:

- Chemistry, Plan A Option, M.S. (university thesis required)
- Chemistry, Plan B Option, M.S. (literature review paper and passing terminal written and oral exams required)
- Chemistry, Plan A Biochemistry Option, M.S. (university theses required)
- Chemistry, Plan B Biochemistry Option, M.S. (literature review paper and passing terminal written and oral exams required)

Chemistry Plan B Option

In order to be eligible for the degree, the student must satisfy the following departmental requirements:

Required Courses (19 units)

Complete a total of 19 units in required courses in Chemistry comprising the following:

- CHEM 4240 - Instrumental Methods of Analysis *Units: 4*
- CHEM 4521 - Elements of Chemical Thermodynamics *Units: 4*
- CHEM 4700 - Survey of Chemical Literature *Units: 2*
- CHEM 6521 - The Chemical Bond *Units: 3*
- CHEM 6820 - Seminar *Units: 1 (times three for 3 units)*
- CHEM 6850 - Methods of Graduate Research *Units: 3*

Advanced Topics Courses (12 units)

Complete a minimum of 12 units from the Advanced Topics courses:

Note: Additional units must be selected to replace any Required courses and Advanced Topics courses taken as an undergraduate.

- CHEM 6310 - Advanced Topics in Organic Chemistry *Units: 3*
- CHEM 6410 - Advanced Topics in Biochemistry *Units: 3*
- CHEM 6510 - Advanced Topics in Physical Chemistry *Units: 3*

Other Electives (12 units)

Complete additional units to total the minimum 45 units required -- to be selected, with the approval of the student's advisor, from additional graduate courses in chemistry or biochemistry or from the list of upper division chemistry courses acceptable for the M.S. Chemistry, Plan B degree. No more than two units of 6900 and none of 6830 or 6910 may be included. A maximum of 12 units from applicable courses in related fields may be included.

Upper Division Chemistry Courses Acceptable for the M.S. Chemistry, Plan B Degree:

- CHEM 3531 - Physical Chemistry Laboratory *Units: 2*
- CHEM 3532 - Physical Chemistry Laboratory *Units: 2*
- CHEM 4161 - Advanced Inorganic Chemistry *Units: 3*
- CHEM 4162 - Advanced Inorganic Chemistry *Units: 3*
- CHEM 4180 - Inorganic Chemistry Laboratory *Units: 2*
- CHEM 4311 - Advanced Organic Chemistry *Units: 4*
- CHEM 4411 - General Biochemistry *Units: 4*
- CHEM 4412 - General Biochemistry *Units: 4*
- CHEM 4413 - General Biochemistry *Units: 4*
- CHEM 4430 - General Biochemistry Laboratory *Units: 4*
- CHEM 4431 - Advanced Biochemistry Laboratory *Units: 2*
- CHEM 4440 - Protein Structure *Units: 3*
- CHEM 4450 - Nucleic Acid Chemistry *Units: 3*
- CHEM 4460 - Major Organ Biochemistry *Units: 3*
- CHEM 4601 - Environmental Chemistry I *Units: 4*
- CHEM 4602 - Environmental Chemistry II *Units: 4*
- CHEM 6430 - Protein Chemistry Techniques *Units: 4*

Capstone Plan B (2 units)

Complete a literature review paper and pass a comprehensive examination consisting of an oral portion covering the review paper and a written portion covering coursework applied to the degree (Comprehensive Review).

- CHEM 6901 - Comprehensive Review *Units: 2*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Chemistry Minor

Department & Faculty Information

Students majoring in other fields may wish to complete a coherent pattern of work in chemistry for the purpose of expanding their employment and educational opportunities. Students successfully completing this program will have the fact entered on their university records.

Minor Requirements (38-39 units)

The minor consists of 38-39 units.

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- CHEM 2200 - Quantitative Analysis *Units: 5*
- CHEM 3301 - Organic Chemistry *Units: 5*
- CHEM 3302 - Organic Chemistry *Units: 5*
- CHEM 3303 - Organic Chemistry *Units: 5*

One of the following courses:

- CHEM 3400 - Introductory Biochemistry *Units: 4*
- CHEM 3501 - Biophysical Chemistry *Units: 4*
- CHEM 3511 - Physical Chemistry Lecture *Units: 3*
- CHEM 4411 - General Biochemistry *Units: 4*
- CHEM 4601 - Environmental Chemistry I *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Communication

The Department Office is located on the 3rd Floor of the Meiklejohn Hall building, Room 3011.

Open 8:00 a.m. - 5:00 p.m., Monday - Friday.

Dept. Phone: (510) 885-3292

Faculty

Associate Professors

Lonny J. Brooks, Ph.D. University of California, San Diego

Grant Kien, Ph.D. University of Illinois at Urbana-Champaign

Terry L. West, Ph.D. Southern Illinois University

Assistant Professors

Katherine M. Bell, Ph.D. University of Washington

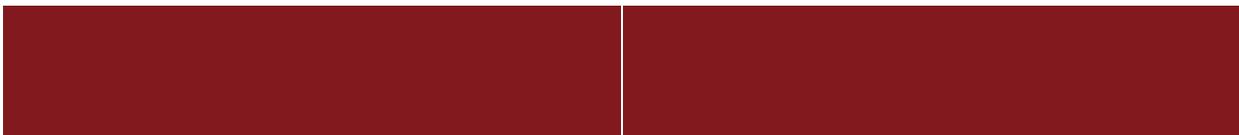
Mary Cardaras (Chair), Ph.D. Northeastern University

William Lawson, Ph.D. Florida State University

Yung-I Liu, Ph.D. Ohio State University

Mission Statement

Graduates will be able to make a positive, professional, and important contribution in the field of communication (Media Environments; Organizational Contexts; and Graduate School) by becoming inclusive, ethical, and effective leaders and participants in global and local communities.



	Advertising Minor Information
Organizations	Scholarships

Bachelor of Arts

Communication, Media Production Option, B.A.

Department & Faculty Information

Communication (B.A.) 180 units

Program Description

The Communication Department features the integration of theories and criticism with the essential skills for media production, professional engagement, and meaningful research. Graduates will be able to make a positive, professional, and important contribution in Media Environments, Digital Journalism, Organizational Contexts, Advertising, Public Relations, and Communication and Media Studies. Students will study, research and analyze the perspectives that will lead to their becoming inclusive, ethical, and effective leaders and participants in global and local communities. They will acquire skills in critical analysis, speaking, writing, and visual presentations across all media. They will learn about the changing world of today's media as well as the long history of the relationship between communication, self, and society and they will be prepared for a broad array of careers. All graduates must complete 13 core courses in communication and elect one of two options: Media Productions emphasizing digital journalism that converges print, audio, visual, and video; Public, Professional, and Organizational Communication that converges the study of Advertising, Public Relations and Organizational Communication.

Student Learning Outcomes

Students graduating with a B.A. in Communication from Cal State East Bay will be able to:

1. Create, analyze, edit, and respond to written, spoken, and visual messages in multiple formats and contexts.
2. Research and evaluate effective communication including design and production techniques and quantitative, qualitative, and critical inquiry.
3. Effectively communicate as leaders and participants in collaborative and individual contexts involving divergent ideas, conflicts, and relationships across cultural and gender differences.
4. Explain and illustrate the construction and maintenance of shared communities that influence and are influenced by communication using critical, cultural, racial, socio-political, gender and justice perspectives.

5. Explain and illustrate concepts of ethical and democratic leadership applying major communication perspectives, including rhetorical and discursive processes, purposes, and relevant media.
6. Explain and illustrate the role identity plays in communication within global and local contexts and in negotiating paradoxes of participation.

Career Opportunities

Communication skills are essential in both work and social settings. Recruiters and placement officers for all types of organizations and positions rank oral and written communication skills at the very top of the list. The department's graduates have entered the following careers:

- Advertising Executive
- Business Executive
- Communication Specialist
- Consultant
- Copy Editor
- Copywriter
- Corporate Communications Director
- Corporate Communicator
- Critic
- Customer Service Representative
- Debate Speech Coach
- Employee Relations Representative
- Film Editor
- Graphic Artist
- Human Resource Administrator
- Impression Management Specialist
- Interviewer
- Journalist
- Media Consultant
- Media Specialist
- News Director
- Newscaster
- News Writer
- Photojournalist
- Professor
- Public Information Specialist
- Public Relations Representative
- Publications
- Radio Programmer
- Sales Representative
- Specification Writer
- Talk Show Host
- Teacher
- Technical Writer
- Television Producer
- Trainer
- Writer

Features

The Communication Department is proud to be responsible for The Pioneer and The Pioneer Online. These are the centerpieces of our digital media production, multimedia journalism and ad sales initiatives. The Pioneer is not only a campus paper, but an East Bay community newspaper. It is distributed on campus and to 150 news stands in seven surrounding communities, from Fremont to San Lorenzo including 5 BART stations. Our growing online newspaper, which includes video and radio podcasts is available to anyone around the world. <http://thepioneeronline.com/> In the coming months, we will be launching College Newsnet International (CNI), which our East Bay journalism students will govern. It is a global news service written and produced by college journalism students from around the world. Our students and others from the Bay Area and indeed all of California will contribute content to this new online publication.

Students post their video work through a portal called Pioneer Web TV and have access to one of the largest studios in the East Bay, fully equipped with lighting gear, sets and a control room. <http://pioneerwebvideo.com/home.html#3> The Department is also well endowed with field ENG equipment, including cameras, lights, mixers, and microphones and editing labs with software, which includes both AVID and Final Cut Pro. Students also produce radio podcasts and have full access to appropriate studio and field gear. They provide the campus and surrounding communities with news, special events coverage, profiles and web streaming for sports, concerts, and featured campus lectures.

The Pioneer has a very successful sales advertising force, which operates under the auspices of our public relations and advertising option in the curriculum. Their work selling ads to our community businesses supports the award-winning journalism in the newspaper and online.

The Department of Communication manages the Communication Lab, which serves the entire university providing communication-related support services. Upper division Communication majors and graduate students serve as tutors, who help students research, organize, and deliver their speeches and presentations. The Department also offers campus internship programs for credit and each year awards a number of scholarships to Communication majors. Juniors, seniors and graduate students are trained to be tutors to all students enrolled in the presentation of public speeches in a supportive environment. The lab is also home to a new Debate Club, which competes regionally and nationally and which will soon sponsor "Speech Night" regularly on campus.

The department has affiliations with the National Communication Association (NCA), the Association of Schools of Journalism and Mass Communication (ASJMC), the Association for Education in Journalism and Mass Communication (AEJMC), the California Newspaper Publishers Association (CNPA), and the California Intercollegiate Press Association (CIPA). The department also sponsors a campus chapter of the Society of Professional Journalists (SPJ) and the Public Relations Student Society of America (PRSSA).

Major Requirements (B.A.) 96 units

Because requirements are subject to change, consult an advisor in the Department of Communication for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 52 units;
- the Media Production Option consists of 44 units;
- the Professional, Public and Organizational Communication Option consists of 44 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).

Required Core Courses (52 units)

- COMM 2201 - Argumentation and Debate *Units: 4*
- COMM 2300 - 21st Century Communication *Units: 4*
- COMM 2320 - Communication Writing and Design *Units: 4*

- COMM 3000 - History and Criticism Communication *Units: 4 (if not used to satisfy a requirement in the Professional, Public and Organizational Communication or Media Production Options)*
or
- COMM 3003 - Communication Theories *Units: 4 (if not used to satisfy a requirement in the Professional, Public and Organizational Communication or Media Production Options)*

- COMM 3002 - Communication, Media and Culture *Units: 4*
- COMM 3004 - Quantitative Communication Research Methods *Units: 4*
- COMM 3005 - Qualitative Communication Research Methods *Units: 4*
- COMM 3107 - Introduction to Organizational Communication *Units: 4*
- COMM 3510 - Small Group Communication *Units: 4*
- COMM 3530 - Interviewing Principles and Practices *Units: 4*
- COMM 4205 - Ethics and Law in Communication *Units: 4*

- COMM 4300 - Critical Discourse of Difference *Units: 4*
or
- COMM 4500 - Gender Identity and Representation in Media *Units: 4*

- COMM 4510 - Public Relations Theory and Practice *Units: 4*

Option Requirements

Students must complete one of the two following options in addition to completing the prerequisites and required core courses listed above:

- Communication, Media Production Option, B.A.
- Communication, Professional, Public and Organizational Communication Option, B.A.

Media Production Option (44 units)

Required Courses

Twenty-four (24) units required:

- COMM 2200 - Introduction to Journalistic Writing *Units: 4*

- COMM 3000 - History and Criticism Communication *Units: 4 (if not used to satisfy a Required Core Course)*
or
- COMM 4150 - Media and Government *Units: 4*

- COMM 3010 - Intermediate News Writing and Editing *Units: 4*
- COMM 3100 - Introduction to Professional Video Production *Units: 4*

- COMM 4006 - Intermediate Video Production *Units: 4*
- COMM 4890 - Senior Project: Media Production *Units: 4*

Workshop Lab Practicum

Select four courses (8 units) from the following:

- COMM 3220 - Media Workshop: Print *Units: 2*
- COMM 3221 - Media Workshop: Magazine and Feature Writing *Units: 2*
- COMM 3222 - Media Workshop: Editorial and Opinion Writing *Units: 2*
- COMM 3223 - Media Workshop: Advertising and Public Relations *Units: 2*
- COMM 3224 - Media Workshop: Internet *Units: 2*
- COMM 3232 - Media Workshop: Video/Documentary *Units: 2*

Elective Courses

Courses (12 units) may be taken within or outside the COMM department. Approval of advisor required.

Course Descriptions

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Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Communication, Professional, Public and Organizational Communication Option, B.A.

Department & Faculty Information

Communication (B.A.) 180 units

Program Description

The Communication Department features the integration of theories and criticism with the essential skills for media production, professional engagement, and meaningful research. Graduates will be able to make a positive, professional, and important contribution in Media Environments, Digital Journalism, Organizational Contexts, Advertising, Public Relations, and Communication and Media Studies. Students will study, research and analyze the perspectives that will lead to their becoming inclusive, ethical, and effective leaders and participants in global and local communities. They will acquire skills in critical

analysis, speaking, writing, and visual presentations across all media. They will learn about the changing world of today's media as well as the long history of the relationship between communication, self, and society and they will be prepared for a broad array of careers. All graduates must complete 13 core cores in communication and elect one of two options: Media Productions emphasizing digital journalism that converges print, audio, visual, and video; Public, Professional, and Organizational Communication that converges the study of Advertising, Public Relations and Organizational Communication.

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Students graduating with a B.A. in Communication from Cal State East Bay will be able to:

1. Create, analyze, edit, and respond to written, spoken, and visual messages in multiple formats and contexts.
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- Human Resource Administrator
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- Journalist
- Media Consultant

- Media Specialist
- News Director
- Newscaster
- News Writer
- Photojournalist
- Professor
- Public Information Specialist
- Public Relations Representative
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- Specification Writer
- Talk Show Host
- Teacher
- Technical Writer
- Television Producer
- Trainer
- Writer

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- the Media Production Option consists of 44 units;
- the Professional, Public and Organizational Communication Option consists of 44 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).

Required Core Courses (52 units)

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- COMM 3002 - Communication, Media and Culture *Units: 4*
- COMM 3004 - Quantitative Communication Research Methods *Units: 4*
- COMM 3005 - Qualitative Communication Research Methods *Units: 4*
- COMM 3107 - Introduction to Organizational Communication *Units: 4*
- COMM 3510 - Small Group Communication *Units: 4*
- COMM 3530 - Interviewing Principles and Practices *Units: 4*
- COMM 4205 - Ethics and Law in Communication *Units: 4*

- COMM 4300 - Critical Discourse of Difference *Units: 4*
or
- COMM 4500 - Gender Identity and Representation in Media *Units: 4*

- COMM 4510 - Public Relations Theory and Practice *Units: 4*

Option Requirements

Students must complete one of the two following options in addition to completing the prerequisites and required core courses listed above:

- Communication, Media Production Option, B.A.
- Communication, Professional, Public and Organizational Communication Option, B.A.

Professional, Public and Organizational Communication Option (44 units)

Required Courses

Thirty-two (32) units required:

- COMM 3000 - History and Criticism Communication *Units: 4 (if not used to satisfy a Required Core Course)*
or
- COMM 3003 - Communication Theories *Units: 4 (if not used to satisfy a Required Core Course)*
- COMM 3204 - Reason in Controversy *Units: 4*
- COMM 3560 - Persuasion Theory and Practice *Units: 4*
- COMM 4107 - Relational Communication in Organizations *Units: 4*
- COMM 4207 - Communicating in Organizations *Units: 4*
- COMM 4520 - Advertising Form and Function *Units: 4*
- COMM 4880 - Conflict Management *Units: 4*
- COMM 4885 - Senior Project: Professional, Public and Organizational Communication *Units: 4*

Elective Courses

Courses (12 units) may be taken within or outside the COMM department. Approval of advisor required.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Arts

Communication, M.A.

Department & Faculty Information

Communication (M.A.) 45 units

Program Description

Students who complete the Master of Arts degree in Communication will gain understanding and expertise in media studies, organizational and interpersonal communication. By enabling them to critically analyze and improve spoken and written messages, the program prepares students to play valuable roles in business, industry, government, and education; to pursue doctoral study; and to communicate effectively in day-to-day life.

The study of Communication includes theories and critical methods of rhetoric and communication, as well as critical analysis of messages as they occur within and across public, interpersonal, and organizational contexts, and across disciplines. The department focuses upon relating theory to practice in ways that recognize and explore the profound influences of ethics and cultural experience on how we communicate. Cal State East Bay's Communication program is widely and highly regarded for its excellence in preparing business, government, teaching professionals, and Ph.D. students.

Student Learning Outcomes

Students graduating with an M.A. in Communication will be able to:

1. Engage critical and creative thinking toward a convergent praxis of theory and applications relevant to tensions, transitions, and transformation in the communication discipline;
2. Develop a program of original research adding to the discovery of knowledge, theory and practical applications toward issues in the communication discipline;
3. Demonstrate results of original research development in the communication discipline through presentation in written, oral, and mediated formats;
4. Develop critical and cultural perspectives toward the role of the communication discipline in promoting equity, social justice, and solutions to complex problems in various communities.

Career Opportunities

Students with an M.A. in Communication are educated to speak, think, and write clearly and effectively. Because these are highly-sought-after skills, graduates are valuable employees in many jobs, including but not limited to teaching, consulting, human resources, personnel, communication training in organizations, management, banking, sales, government, and politics. The degree is also excellent preparation for Ph.D. and law degrees.

Faculty: Areas of Specialization

The graduate faculty is comprised of seven professors committed to teaching excellence and research. The faculty are well respected and are involved in professional organizations, in campus activities, and in community service.

Katherine Bell, Ph.D., 2012, University of Washington; MA, 2006, York University: Critical cultural studies, celebrity culture, consumer culture, race, gender and sexual identities in media, journalism.

Lonny Brooks, Ph.D. 2004, University of California, San Diego; M.L.I.S. 1995, University of California, Los Angeles: organizational communication, information technologies, critical ethnography, communication theory and research

Mary Cardaras, Ph.D., 2011, Department of Political Science: M.S.1980 Northwestern University Broadcast Journalism: Public and International Affairs, Political Communication, Media and Politics.

Grant Kien, Ph.D., 2006, University of Illinois at Champaign-Urbana, M.A., 2002, York University: technography, technology and organizational/social change, digital media and culture, qualitative research, globalization.

William H Lawson, PhD, 2008 Florida State University, M.S. 2005 Florida State University: rhetorical criticism, agency, and visual communication

Yung-I Liu, Ph.D., 2008, The Ohio State University, M.A., 1998, The Ohio State University: strategic communication, political campaign communication, communication geography, quantitative and statistical research methods, media effects on different ethnic groups.

Terry West, Ph.D., 1994, Southern Illinois University, M.A., 1985, Southwest Missouri State University (now Missouri State University): communication education, argumentation, critical thinking, persuasion, forensics, debate.

Areas of Emphasis

Students in the department take regularly-offered seminars and upper division courses in organizational communication, interpersonal communication, media studies, and intercultural communication. In addition, students may choose among special-topics seminars, upper division courses, and independent study. Advisors work with students to create programs of study that meet their goals.

Features

The Communication Department is proud to be responsible for *The Pioneer* and *The Pioneer Online*. These are the centerpieces of our digital media production, multimedia journalism and ad sales initiatives. *The Pioneer* is not only a campus paper, but an East Bay community newspaper. It is distributed on campus and to 150 news stands in seven surrounding communities, from Fremont to San Lorenzo including 5 BART stations. Our growing online newspaper, which includes video and radio podcasts is available to anyone around the world. <http://thepioneeronline.com/> In the coming months, we will be launching *College Newsnet International (CNI)*, which our East Bay journalism students will govern. It is a global news service written and produced by college journalism students from around the world. Our students and others from the Bay Area and indeed all of California will contribute content to this new online publication.

Students post their video work through a portal called Pioneer Web TV and have access to one of the largest studios in the East Bay, fully equipped with lighting gear, sets and a control room. <http://pioneerwebvideo.com/home.html#3> The Department is also well endowed with field ENG equipment, including cameras, lights, mixers, and microphones and editing labs with software, which includes both AVID and Final Cut Pro. Students also produce radio podcasts and have full access to appropriate studio and field gear. They provide the campus and surrounding communities with news, special events coverage, profiles and web streaming for sports, concerts, and featured campus lectures.

The Pioneer has a very successful sales advertising force, which operates under the auspices of our public relations and advertising option in the curriculum. Their work selling ads to our community businesses supports the award-winning journalism in the newspaper and online.

The Department of Communication manages the Communication Lab, which serves the entire university providing communication-related support services. Upper division Communication majors and graduate students serve as tutors, who help students research, organize, and deliver their speeches and presentations. The Department also offers campus internship programs for credit and each year awards a number of scholarships to Communication majors. Juniors, seniors and graduate students are trained to be tutors to all students enrolled in the presentation of public speeches in a supportive environment. The lab is also home to a new Debate Club, which competes regionally and nationally and which will soon sponsor "Speech Night" regularly on campus.

The department has affiliations with the National Communication Association (NCA), the Association of Schools of Journalism and Mass Communication (ASJMC), the Association for Education in Journalism and Mass Communication (AEJMC), the California Newspaper Publishers Association (CNPA), and the California Intercollegiate Press Association (CIPA). The department also sponsors a campus chapter of the Society of Professional Journalists (SPJ) and the Public Relations Student Society of America (PRSSA).

Work Study: If you are interested in the work study program, consult with the Financial Aid Office, 3rd Floor, Student Services and Administration.

Internships: With the permission of your committee chair, students may earn up to four units of internship credit by working in the Communication Lab, by mentoring in COMM 1000 or COMM 1004, by internship through Co-op Education, by internship in Organizational Communication, or by other work-related internships.

Teaching Associates

Qualified students may be granted opportunities to teach, to assist in forensics, or to assist a professor on a project. To be eligible for consideration in teaching COMM 1000 and/or COMM 1004, students must show satisfactory achievement in COMM 6250 (Teaching Public Speaking and Interpersonal Communication), successful completion of specified coursework, and must have mentored with a faculty member in the course(s) they wish to teach. Interested students should consult with the Graduate Coordinator or the department Chair.

Scholarships and Awards

- The Karl Robinson Scholarship is awarded to outstanding Communication students and M.A. candidates who show potential for excellence in scholarly achievement.
- The Outstanding Graduate Student Award is given to students who demonstrate outstanding scholarship, leadership, and contribution to the program.
- The Outstanding Teaching Associate Award is given to students who demonstrate outstanding performance in teaching.

Admission

Application for admission includes two parts:

1. submit the university application form, with fee, to the Admissions Office, Student Services and Administration Building, Cal State East Bay, Hayward, CA 94542;
2. submit the department application form, a statement of purpose, three letters of recommendation, and a sample of scholarly writing to the Graduate Coordinator, Department of Communication, Cal State East Bay, Hayward, CA 94542. Both university and department application forms are available on the Department of Communication website. You may be admitted under one of the following:

"Classified Graduate" Standing

For admission with "Classified Graduate" standing to the M.A. program in Communication, students must:

1. submit an application to pursue a specific program of graduate study and be accepted by the department and the university
2. have completed a baccalaureate major in Communication from an accredited institution, or appropriate preparatory coursework approved by the faculty
3. have maintained an overall grade point average of at least 3.00, and
4. satisfied the University Writing Skills Requirement.

"Conditionally Classified Graduate" Standing

If a student's communication major did not include prerequisite courses, if a student's degree is in another field, or if the University Writing Skills Requirement has not been satisfied, it may be possible to be admitted with "Conditionally Classified Graduate" standing. In this case, students are admitted graduate students but have conditions to meet. Student status will remain conditional until the work is completed with a minimum of "B" or better grades and the Writing Skills Test has been passed. (See the following section, "Degree Requirements," for prerequisite courses.)

Degree Requirements

The M.A. in Communication requires completion of 45 units in an approved program of study, with a "B" (3.0) or better.

Up to 12 units at the 4000 level may count toward graduation.

Up to 12 units of Independent Study may be taken (by advisor approval) which may also count towards your degree. No more than two Independent Study units may be taken as mentee or intern credit.

Up to 12 units of graduate seminars outside the Communication Department may be taken (by advisor approval) at or above the 4000 level.

All courses are four units unless otherwise specified. In cases of transferred credit, a minimum of 32 units must be completed at CSU East Bay.

Writing Skills Requirement

All students must meet the University Writing Skills Requirement (UWSR) to become fully "Classified Graduate" students. Graduate students must begin satisfaction of this requirement in their first quarter of their residency.

Attainment of "Classified Graduate" Standing

To attain "Classified Graduate" standing, a student must have completed all prerequisites with grades of "B" or better and satisfied the University Writing Skills Requirement. Notify the graduate advisor immediately upon completion, and request that s(he) complete the necessary paper work.

Advancement to Candidacy

To be Advanced to Candidacy for the M.A. degree in Communication, the student must:

1. be a "Classified Graduate" student in good standing;
2. complete 12 quarter units beyond the prerequisites with at least "B" grades;
3. choose a program advisor;
4. submit a study plan for completion of the degree program to the program advisor;
5. have the thesis proposal or project proposal approved by their graduate adviser, if applicable;
6. show evidence of progress and ability to complete the program.

Capstone Experiences

1. Project (5 units): Upon approval of his/her graduate committee, a student may elect the Project option (5 units); enrollment commits the student to a production of a piece of work which is to follow prescribed forms; a permanent record is to be filed in the departmental office.
2. University Thesis (9 units): Upon approval of his/her graduate committee, a student may elect the University Thesis; s/he will carry out research on a specific topic in the field and will report, review, and file the results; s/he will be examined on the thesis (see 3, below under "Examinations" heading); the University Thesis carries 9 units of credit.
3. Comprehensive Examination: A student may elect a program made up entirely of a minimum of 45 units of approved coursework, including COMM 6901 - Comprehensive Examination Preparation. A comprehensive examination must be passed.

Examinations

1. Students electing the Project option (5 units) will sit for a two-hour oral defense of their project at its completion.
2. Students electing the University Thesis option will sit for a two-hour oral defense of the thesis at its completion.
3. Satisfactory achievement on comprehensive written and oral examinations will be required of students electing the coursework and project options. For the comprehensive examinations, the student will be tested on all coursework taken during their graduate study, including all required courses and any coursework in progress during the quarter of examination.

Curricular Requirements

The Department of Communication offers graduate study leading to the Master of Arts degree in Communication. The candidate must observe the general requirements for the Master of Arts degree stated in the Graduate Degree Information chapter in this catalog as well as specific departmental requirements stated here and more fully in the Graduate Handbook issued by the department (copies available upon request). University requirements include the 32-unit residence requirement, the 5-year rule in currency of subject matter, the minimum number of units of 6000-level courses, a 3.00 GPA, and

the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

The candidate is also responsible for:

1. consulting an advisor and planning a tentative program with that advisor.
2. completing the prerequisites to the program and all program requirements.

First Year of Study Courses (12 units)

Required to be taken the first year of study:

- COMM 6000 - Introduction to Graduate Study *Units: 4*
- COMM 6010 - Seminar in Theories in Communication *Units: 4*

And select at least one (1) from the following:

- COMM 6040 - Advanced Qualitative Research Methods *Units: 4 (see Capstone requirements)*
- COMM 6050 - Advanced Quantitative Research Methods *Units: 4*

Cluster Courses (12 units)

Select at least three courses in the cluster of your choice (12 units; more may be taken).

Communication Studies Cluster

Any combination of 12 units taken from all clusters with advisor's approval.

Media Studies Cluster

Required course:

- COMM 6300 - Seminar in Media Studies *Units: 4*

And select at least two (2) courses from the following:

- COMM 6020 - Seminar in Communication, Media, and Society *Units: 4 (see Capstone requirements)*
- COMM 6450 - Seminar in Globalization and Media *Units: 4*
- COMM 6550 - Seminar in Critical Cultural Studies *Units: 4*
- COMM 6551 - Critical Ethnic Media Studies *Units: 4*

Organizational and Interpersonal Communication Cluster

- COMM 6400 - Seminar in Rhetorical Studies *Units: 4*

And select at least two (2) courses from the following:

- COMM 6600 - Seminar in Organizational Communication *Units: 4*
- COMM 6850 - Professional Communication *Units: 4 (covering facilitation, corporate communication and communications consulting)*
- COMM 6100 - Topics in Speech Communication *Units: 4 (may be repeated)*
- COMM 6900 - Independent Study *Units: 1-4*

Elective Courses (12-20 units)

The number of elective units you take is determined by the Capstone Experience you choose below (e.g. 16 units of electives with a 5-unit Special Project). Total units for Electives and Capstone Experience must be 21. Total units for degree is 45.

Qualifying 4000 and 6000 level departmental and non-departmental courses to be approved in advance of every quarter, as per the University course calendar.

Capstone Experience (1-9 units)

The M.A. degree may be completed in one of the following ways, with approval of the advisor. Completion of all First Year and Elective courses is required. **Note: COMM 6020 or COMM 6040 are required if choosing Projects or University Thesis options.**

- COMM 6899 - Project *Units: 5 (may be taken over two quarters, but must total 5 units to finish)*
- COMM 6910 - University Thesis *Units: 1-9 (may be taken over two or more quarters, but must total 9 units to finish)*
- COMM 6901 - Comprehensive Examination Preparation *Units: (advancement to candidacy is required for this option)*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Communication Minor

Department & Faculty Information

The Communication minor offers the student majoring in another discipline the opportunity to study and practice an integrated approach to communications in the 21st century. Students considering careers in law, business, health-care, and criminal justice will benefit from this minor.

Minor Requirements (44 units)

The Communication Minor consists of 44 units.

Prerequisites to the Minor (8 units)

- COMM 1000 - Public Speaking *Units: 4*
- COMM 1004 - Interpersonal Communication *Units: 4*

Required Core Courses for the Minor (24 units)

- COMM 2300 - 21st Century Communication *Units: 4*
- COMM 2320 - Communication Writing and Design *Units: 4*
- COMM 3002 - Communication, Media and Culture *Units: 4*

- COMM 3004 - Quantitative Communication Research Methods *Units: 4*
or
- COMM 3005 - Qualitative Communication Research Methods *Units: 4*

- COMM 4300 - Critical Discourse of Difference *Units: 4*
or
- COMM 4500 - Gender Identity and Representation in Media *Units: 4*

- COMM 4205 - Ethics and Law in Communication *Units: 4*

Required Elective Courses (20 units)

20 units selected in consultation with advisor from *either* the Professional Public and Organizational Communication Option or the Media Production Option, including appropriate senior project: COMM 4885 or COMM 4890.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Communicative Sciences and Disorders

Department Office is located in the Music & Business building, Room 1099

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: 510.885.3233

Faculty

Associate Professor

Shubha P. Kashinath (Interim Chair), Ph.D. Florida State University

Assistant Professors

Ai Leen Choo, Ph.D. University of Illinois at Urbana-Champaign

Elena Dukhovny, Ph.D. University of California, Berkeley/San Francisco State University

Pradeep Ramanathan, Ph.D. University of Minnesota

Mission Statement

The Department of Communicative Sciences and Disorders provides students pre-professional and professional training in speech-language pathology and audiology, which is founded on state and national standards, evidence-based practice, research, and science and technology, to prepare them to serve persons with communication disorders and their families in an ethical and culturally competent manner.

Labs

Norma S. and Ray R. Rees
Speech, Language and Hearing Clinic

Bachelor of Science

Speech Pathology and Audiology, B.S.

Department & Faculty Information

Speech Pathology and Audiology (B.S.) 180 units

Program Description

Speech-language pathology and audiology are the professions which help adults and children overcome disabilities of speech, language, and/or hearing. These professions can satisfy a wide variety of career interests, including working in an allied medical profession, public service, government, education and private industry. Through research, these professions also contribute to our knowledge about human communication.

Many students select this degree program for professional training in speech-language pathology; others select this major because it seeks to develop student patterns of clear and logical thinking, planning, decision making and writing. Drawing from such academic disciplines as biology, psychology, sociology, linguistics, medicine, and the physical sciences, the program offers an interdisciplinary character that encourages and fosters an emphasis on acquiring the broad knowledge of a liberal arts general education, as well as developing expertise in a single discipline. Many of our undergraduate majors have used these attributes to successfully pursue careers other than speech-language pathology, and have gone on to fields of education, finance, business, and government services.

Student Learning Outcomes

Students graduating with a B.S. in Speech-Language Pathology will be able to:

1. Complete foundational academic coursework in preparation for advanced professional training in speech-language pathology or related disciplines;
2. Integrate knowledge from basic and behavioral sciences and humanities with contemporary theory and practice in speech-language pathology;
3. Describe typical and atypical communicative development and behavior across the lifespan;
4. Demonstrate skills in working collaboratively;
5. Explain the importance of cultural competence, social justice, ethics, and advocacy in serving diverse individuals.

Career Opportunities

- Audiologist
- Communications Specialist
- Consultant
- Professor/Teacher
- Research Associate
- Audiometrist
- ABA Therapist
- School Aide
- Positions in the health care industry
- Positions in rehabilitation or long term care facilities

Features

The department operates the Norma S. and Ray R. Rees Speech, Language and Hearing Clinic, an on-campus facility that provides clinical services to speech-, language-, and hearing-impaired individuals from Bay Area Communities. Students who are enrolled in the program are able to observe, receive training, and do research in this fully-equipped facility. The program also maintains a fully equipped speech and hearing sciences laboratory for students who wish to pursue research interests.

The Department of Communicative Sciences and Disorders offers the coursework required to qualify as a registered audiometrist in the public schools of the State of California.

The Bachelor of Science degree major in Speech-Language Pathology provides students with a background in theoretical and clinical areas fundamental to the understanding and management of communicative disorders and serves as the pre-professional training necessary for admission to graduate studies.

Major Requirements (B.S.) 100 units

The B.S. degree in Speech Pathology and Audiology is designed to prepare the student to pursue graduate training in speech-language pathology or audiology or, employment in related fields.

The B.S. degree requires a total of 180 units.

- The core major consists of 100 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult an advisor in your major department for clarification and interpretation of your major requirements.

Lower Division Core (24 units)

The following 9 units required:

- SPPA 2850 - Introduction to Communication Disorders *Units: 4*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*

Plus choose 5 units from EACH grouping:

- BIOL 1000 - Basic Concepts in Biology *Units: 5*
- BIOL 1002 - Introduction to Biology Lab *Units: 1* and BIOL 1005 How Things Work: The Human Body *Units: 4*
- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*
- BIOL 2011 - Anatomy and Physiology I *Units: 5*
- PSYC 1000 - General Psychology *Units: 5*
- PSYC 1001 - General Psychology and Society *Units: 5*
- PSYC 1005 - General Psychology for Healthier Living *Units: 5*

Upper Division Core (62-69 units)

Seven (7) additional units are required for students choosing the Honors Clinic Track (see below).

- HDEV 4110 - Child Cognitive Development *Units: 4*
or
- PSYC 4420 - Developmental Psychology *Units: 4*
- SPPA 3852 - Speech, Language and Communication Development Across the Lifespan *Units: 4*
- SPPA 3854 - Anatomy and Physiology of Speech *Units: 4*
- SPPA 3855 - Phonetics *Units: 4*
- SPPA 3856 - Observation of Clinical Procedures in Communicative Disorders *Units: 2*
- SPPA 3859 - Theory and Practice of Audiology I *Units: 4*
- SPPA 4852 - Clinical Methods and Procedures in Communicative Disorders *Units: 3*
- SPPA 4859 - Evidence-based Practice in Communicative Sciences and Disorders *Units: 4*
- SPPA 4861 - Hearing Assessment: Instrumentation and Behavioral *Units: 5*
- SPPA 4862 - Organic and Low Incidence Speech Disorders *Units: 4*
- SPPA 4863 - Articulation and Phonological Disorders *Units: 4*
- SPPA 4865 - Language Disorders in Children *Units: 4*
- SPPA 4866 - Neurocognitive Communication Disorders *Units: 4*
- SPPA 4867 - Speech Science *Units: 4*
- SPPA 4868 - Cultural and Linguistic Diversity *Units: 4*
- SPPA 4869 - Neuroanatomy and Neurophysiology of the Speech, Language and Hearing Mechanism *Units: 4*

Honors Clinic Track (7 units)

Required only for students pursuing the Honors Clinic Track

- SPPA 4854 - Diagnosis of Speech and Language Disorders *Units: 4*
- SPPA 4856 - Practicum in Speech-Language Pathology *Units: 3*

Elective Requirements (7-14 units)

Each student enrolled in this major must complete upper division courses in related disciplines; these courses are subject to adviser approval. The minimum number of elective units is 7 if the student is eligible for the Honors Clinic Track, 14 elective units if not.

Courses may be chosen from areas such as psychology, human development, linguistics and sign language. Students are responsible for any required prerequisites for elective courses.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Credential (Post-Baccalaureate) Programs

Speech-Language Pathology Services Credential

Department & Faculty Information

The Department of Communicative Sciences and Disorders has developed a program of graduate study designed to fulfill the requirements for the Speech-Language Pathology Services Credential. This credential is required for employment in California's public schools.

Individuals wishing to obtain this credential must meet all requirements of the Speech-Language Pathology M.S. degree outlined below that includes an internship in the public schools (SPPA 6066), an additional 4-unit course in Educational Psychology (EPSY 5021) and fulfillment of California's Basic Skills Requirement.

Credential Requirements (4 units)

The Speech-Language Pathology Services Credential track prepares a student to apply for California's Speech-Language Pathology Services Credential and requires the completion of the M.S. degree outlined above and the following:

Required for Speech-Language Pathology Services Credential:

- Internship in the public schools (included in the M.S. degree: SPPA 6066)
 - Fulfillment of California's Basic Skills Requirement
- and*
- EPSY 5021 - Introduction to Educating all Students in Diverse Classrooms *Units: 4*

Speech-Language Pathology (M.S.) 74-78 units

Program Description

The Master of Science degree in Speech-Language Pathology is offered in the Department of Communicative Sciences and Disorders. The objective of this program is the professional preparation of each student, academically and clinically, for state licensure, clinical certification by the American Speech-Language-Hearing Association, and the credential as a public school Speech, Language and Hearing Specialist.

Speech-language pathology and audiology are the professions which help adults and children overcome disabilities of speech, language and hearing.

This program has developed a reputation for rigorous and balanced professional training. The master's degree program is accredited by the American Speech-Language-Hearing Association.

Student Learning Outcomes

Students graduating with an M.S. in Speech-Language Pathology will be able to:

1. Screen, assess and treat individuals with a variety of communicative disorders across the lifespan;
2. Communicate and collaborate effectively with clients, families, and other professionals;
3. Evaluate and apply clinical research, recognizing the need for evidence to support best practices in clinical service delivery;
4. Consistently apply ethical professional standards, recognize and respect the limits of their professional preparation and clinical skills, and work effectively with other professionals;
5. Demonstrate cultural competence and commitment to advocacy for persons with communicative disorders.

Career Opportunities

Students who complete the Master of Science degree in Speech-Language Pathology are eligible for ASHA certification, California state licensure, and in most cases the Speech-Language Pathology Services Credential. Speech-language pathologists work in a variety of settings including hospitals, schools, rehabilitation centers, community speech and hearing clinics, public schools, and private practice.

Special Features

Clinical experiences are a key component in preparing students for licensure. The department operates the Norma S. and Rary R. Rees Speech, Language and Hearing Clinic, an on-campus facility that provides clinical services to speech, language, and hearing impaired individuals from Bay Area communities. Students who are enrolled in the Speech-Language Pathology master's program are able to observe, receive training, and do research in this fully-equipped facility. Additional clinical training is received in off-site placements and internships in settings that meet each student's interests and training requirements including hospitals, rehabilitation facilities, schools, and clinics. In order to acquire the knowledge and skills requisite to the practice of speech-language pathology, including the ability to function in a broad variety of clinical situations and to render a wide spectrum of client care, students must demonstrate skills and attributes in five skill areas: academic performance, written language, oral communication, hearing, and interpersonal management. Prior to entering clinic, students will pass an essential functions evaluation of skills necessary to be an effective clinician. The evaluation will include a screening of students' speech, oral-written language, and hearing.

Scholarships

- The most usual form of financial aid is in the form of guaranteed student loans. However, other types of financial aid are available. The university supports the following programs:
 - State University Grant
 - Federal Perkins Loan
 - Federal Stafford Loan (including unsubsidized)
 - Federal Work-Study
 - Federal Supplemental Loans for Students

- Cal State East Bay Scholarships
- The Department of Communicative Sciences and Disorders recommends the award of certain forms of financial aid within the University. They include the following:
 - *Betty Lindeman and Robert N. Rosenthal Memorial Fund*, non-interest loans, \$500 - \$1500 for graduate students in Communicative Sciences and Disorders.
 - *Stephanie Amore Memorial Fund*, endowment earnings benefit students in the department
 - *Stephanie Kalman Foundation Scholarships*, \$2,000-\$3000 scholarships for undergraduate and graduate students in Communicative Sciences and Disorders
- The department also maintains information on scholarships and grants from additional university and professional sources.
- Occasionally, funds are available for Graduate Equity Fellowships, Research and Teaching Assistantships, and Student Assistantships (clerical).

Admission

- A candidate must be admitted to the university, consistent with requirements and procedures explained in this catalog. Interested candidates apply for admission to the department and to the university at the same time. Applications for admission to the department are online at the department website (<http://www.csueastbay.edu/commsci>).

There are three categories of student status while pursuing the degree: "Conditionally Classified Graduate", "Classified Graduate", and "Advancement to Candidacy."

"Conditionally Classified" Status

Students are in "Conditionally Classified" status when they have been admitted to the M.S. in Speech-Language Pathology degree program, but have not yet completed the requirements for "Classified Graduate" status. Students whose undergraduate degree is not in the field of speech pathology should apply under this status.

"Classified Graduate" Status

Students are in "Classified Graduate" status when they:

- have been admitted to the M.S. in Speech-Language Pathology degree program;
- possess a baccalaureate degree from an accredited college or university with a major in Speech Pathology and Audiology or the equivalent coursework in Speech Pathology and Audiology with another degree. Preparatory coursework completed at other institutions must correspond in scope and content with required and elective courses offered on this campus;
- complete SPPA 4852, 4854, 4859, 4861, 4862, 4865, 4866 and 4867 or the equivalent;
- possess an overall grade point average of 3.0 or better covering the last 90 quarter units of course work;
- present evidence of having satisfactorily completed a minimum of 60 clock hours of supervised clinical practica in speech, language, and hearing;
- fulfill the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Advancement to Candidacy

Students reach "Advancement to Candidacy" status if they:

1. are a "Classified Graduate" student in good standing;
2. complete at least 12 units in graduate work in Speech Pathology and Audiology with a GPA of at least 3.0;

3. complete a minimum of 2 units of SPPA 6056 and/or SPPA 6156 with a grade of "B" or better;
4. defend satisfactorily his or her thesis proposal, if a thesis capstone is selected; and
5. show evidence of progress and ability to complete the program by receiving at least a 3.0 GPA in each course taken.

Degree Requirements (74-78 units)

The program leading to the **M.S. degree in Speech-Language Pathology** requires completion of at least **74 quarter units** of credit with grades of "B" (3.0) or better from the courses listed below.

The **Speech-Language Pathology Services Credential track** requires the completion of the MS degree plus **additional units and requirements for 78 quarter units** (see "Credentials" listed in the chapter in the catalog).

The work must be completed within five calendar years after admission to the program. At least 63 units must be completed in residence.

Core Required Courses (68 units)

- SPPA 6000 - Research Methods in Communicative Sciences and Disorders *Units: 4*
- SPPA 6010 - Advanced Speech and Hearing Science *Units: 2*
- SPPA 6020 - Vocal Pathology and Rehabilitation *Units: 4*
- SPPA 6030 - Clinical Organization and Management *Units: 2*
- SPPA 6040 - Advanced Seminar in Speech, Language and Communication Disorders *Units: 2*
- SPPA 6050 - Neurogenic Motor Speech Disorders: Adults and Children *Units: 4*
- SPPA 6055 - Aphasia and Related Neurogenic Language Disorders *Units: 4*
- SPPA 6056 - Practicum in Speech-Language Pathology: Treatment *Units: 2 (x3 for a total of 6 units)*
- SPPA 6057 - Practicum in Speech-Language Pathology: Assessment *Units: 2*
- SPPA 6060 - Advanced Study of Language Disorders in Children *Units: 4*
- SPPA 6064 - Fluency Disorders *Units: 4*
- SPPA 6066 - Clinical Internship in Speech-Language Pathology *Units: 6 (x2 for a total of 12 units)*
- SPPA 6070 - Augmentative/Alternative Communication-Assistive Technology for Speech-Language Pathologists *Units: 4*
- SPPA 6080 - Counseling Individuals with Speech, Language and Hearing Disorders *Units: 4*
- SPPA 6156 - Practicum in Audiologic Assessment *Units: 2*
- SPPA 6160 - Audiological Rehabilitation *Units: 4*
- SPPA 6220 - Dysphagia in Adults and Children *Units: 4*

Core Electives (4-6 units)

Students completing a 2-unit University Thesis for their Capstone Experience need only take a minimum of 4 elective units.

Students must select a minimum of 4-6 units from the following list of approved SPPA elective courses. Course substitutions may be made only with the approval of a graduate faculty advisor. Students may need to enroll in more than 4 or 6 units of electives to prepare for professional certification, licensure or credential.

- SPPA 6224 - Issues in Ethics *Units: 2*
- SPPA 6228 - School-based Issues in Speech-Language Pathology *Units: 2*
- SPPA 6229 - Medical Speech-Language Pathology *Units: 2*
- SPPA 6999 - Issues in Speech Pathology and Audiology *Units: 4*

Core Capstone Experiences (0-2 units)

Satisfactory achievement on a written or oral comprehensive examination, the format of which will be determined by the department (0-units), **OR** SPPA 6910 University Thesis *Units: 2*, including an oral examination.

The student need not have taken all required and elective courses for the major prior to completing the capstone experience; however, information contained in those courses may be included in the capstone experience.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Master of Science

Speech-Language Pathology, M.S.

Department & Faculty Information

Speech-Language Pathology (M.S.) 74-78 units

Program Description

The Master of Science degree in Speech-Language Pathology is offered in the Department of Communicative Sciences and Disorders. The objective of this program is the professional preparation of each student, academically and clinically, for state licensure, clinical certification by the American Speech-Language-Hearing Association, and the credential as a public school Speech, Language and Hearing Specialist.

Speech-language pathology and audiology are the professions which help adults and children overcome disabilities of speech, language and hearing.

This program has developed a reputation for rigorous and balanced professional training. The master's degree program is accredited by the American Speech-Language-Hearing Association.

Student Learning Outcomes

Students graduating with an M.S. in Speech-Language Pathology will be able to:

1. Screen, assess and treat individuals with a variety of communicative disorders across the lifespan;
2. Communicate and collaborate effectively with clients, families, and other professionals;
3. Evaluate and apply clinical research, recognizing the need for evidence to support best practices in clinical service delivery;
4. Consistently apply ethical professional standards, recognize and respect the limits of their professional preparation and clinical skills, and work effectively with other professionals;
5. Demonstrate cultural competence and commitment to advocacy for persons with communicative disorders.

Career Opportunities

Students who complete the Master of Science degree in Speech-Language Pathology are eligible for ASHA certification, California state licensure, and in most cases the Speech-Language Pathology Services Credential. Speech-language pathologists work in a variety of settings including hospitals, schools, rehabilitation centers, community speech and hearing clinics, public schools, and private practice.

Special Features

Clinical experiences are a key component in preparing students for licensure. The department operates the Norma S. and Rary R. Rees Speech, Language and Hearing Clinic, an on-campus facility that provides clinical services to speech, language, and hearing impaired individuals from Bay Area communities. Students who are enrolled in the Speech-Language Pathology master's program are able to observe, receive training, and do research in this fully-equipped facility. Additional clinical training is received in off-site placements and internships in settings that meet each student's interests and training requirements including hospitals, rehabilitation facilities, schools, and clinics. In order to acquire the knowledge and skills requisite to the practice of speech-language pathology, including the ability to function in a broad variety of clinical situations and to render a wide spectrum of client care, students must demonstrate skills and attributes in five skill areas: academic performance, written language, oral communication, hearing, and interpersonal management. Prior to entering clinic, students will pass an essential functions evaluation of skills necessary to be an effective clinician. The evaluation will include a screening of students' speech, oral-written language, and hearing.

Scholarships

- The most usual form of financial aid is in the form of guaranteed student loans. However, other types of financial aid are available. The university supports the following programs:
 - State University Grant
 - Federal Perkins Loan
 - Federal Stafford Loan (including unsubsidized)
 - Federal Work-Study
 - Federal Supplemental Loans for Students
 - Cal State East Bay Scholarships
- The Department of Communicative Sciences and Disorders recommends the award of certain forms of financial aid within the University. They include the following:
 - *Betty Lindeman and Robert N. Rosenthal Memorial Fund*, non-interest loans, \$500 - \$1500 for graduate students in Communicative Sciences and Disorders.
 - *Stephanie Amore Memorial Fund*, endowment earnings benefit students in the department
 - *Stephanie Kalman Foundation Scholarships*, \$2,000-\$3000 scholarships for undergraduate and graduate students in Communicative Sciences and Disorders

- The department also maintains information on scholarships and grants from additional university and professional sources.
- Occasionally, funds are available for Graduate Equity Fellowships, Research and Teaching Assistantships, and Student Assistantships (clerical).

Admission

- A candidate must be admitted to the university, consistent with requirements and procedures explained in this catalog. Interested candidates apply for admission to the department and to the university at the same time. Applications for admission to the department are online at the department website (<http://www.csueastbay.edu/commsci>).

There are three categories of student status while pursuing the degree: "Conditionally Classified Graduate", "Classified Graduate", and "Advancement to Candidacy."

"Conditionally Classified" Status

Students are in "Conditionally Classified" status when they have been admitted to the M.S. in Speech-Language Pathology degree program, but have not yet completed the requirements for "Classified Graduate" status. Students whose undergraduate degree is not in the field of speech pathology should apply under this status.

"Classified Graduate" Status

Students are in "Classified Graduate" status when they:

- have been admitted to the M.S. in Speech-Language Pathology degree program;
- possess a baccalaureate degree from an accredited college or university with a major in Speech Pathology and Audiology or the equivalent coursework in Speech Pathology and Audiology with another degree. Preparatory coursework completed at other institutions must correspond in scope and content with required and elective courses offered on this campus;
- complete SPPA 4852, 4854, 4859, 4861, 4862, 4865, 4866 and 4867 or the equivalent;
- possess an overall grade point average of 3.0 or better covering the last 90 quarter units of course work;
- present evidence of having satisfactorily completed a minimum of 60 clock hours of supervised clinical practica in speech, language, and hearing;
- fulfill the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Advancement to Candidacy

Students reach "Advancement to Candidacy" status if they:

1. are a "Classified Graduate" student in good standing;
2. complete at least 12 units in graduate work in Speech Pathology and Audiology with a GPA of at least 3.0;
3. complete a minimum of 2 units of SPPA 6056 and/or SPPA 6156 with a grade of "B" or better;
4. defend satisfactorily his or her thesis proposal, if a thesis capstone is selected; and
5. show evidence of progress and ability to complete the program by receiving at least a 3.0 GPA in each course taken.

Degree Requirements (74-78 units)

The program leading to the **M.S. degree in Speech-Language Pathology** requires completion of at least **74 quarter units** of credit with grades of "B" (3.0) or better from the courses listed below.

The **Speech-Language Pathology Services Credential track** requires the completion of the **MS degree plus additional units and requirements for 78 quarter units** (see "Credentials" listed in the chapter in the catalog).

The work must be completed within five calendar years after admission to the program. At least 63 units must be completed in residence.

Core Required Courses (68 units)

- SPPA 6000 - Research Methods in Communicative Sciences and Disorders *Units: 4*
- SPPA 6010 - Advanced Speech and Hearing Science *Units: 2*
- SPPA 6020 - Vocal Pathology and Rehabilitation *Units: 4*
- SPPA 6030 - Clinical Organization and Management *Units: 2*
- SPPA 6040 - Advanced Seminar in Speech, Language and Communication Disorders *Units: 2*
- SPPA 6050 - Neurogenic Motor Speech Disorders: Adults and Children *Units: 4*
- SPPA 6055 - Aphasia and Related Neurogenic Language Disorders *Units: 4*
- SPPA 6056 - Practicum in Speech-Language Pathology: Treatment *Units: 2 (x3 for a total of 6 units)*
- SPPA 6057 - Practicum in Speech-Language Pathology: Assessment *Units: 2*
- SPPA 6060 - Advanced Study of Language Disorders in Children *Units: 4*
- SPPA 6064 - Fluency Disorders *Units: 4*
- SPPA 6066 - Clinical Internship in Speech-Language Pathology *Units: 6 (x2 for a total of 12 units)*
- SPPA 6070 - Augmentative/Alternative Communication-Assistive Technology for Speech-Language Pathologists *Units: 4*
- SPPA 6080 - Counseling Individuals with Speech, Language and Hearing Disorders *Units: 4*
- SPPA 6156 - Practicum in Audiologic Assessment *Units: 2*
- SPPA 6160 - Audiological Rehabilitation *Units: 4*
- SPPA 6220 - Dysphagia in Adults and Children *Units: 4*

Core Electives (4-6 units)

Students completing a 2-unit University Thesis for their Capstone Experience need only take a minimum of 4 elective units.

Students must select a minimum of 4-6 units from the following list of approved SPPA elective courses. Course substitutions may be made only with the approval of a graduate faculty advisor. Students may need to enroll in more than 4 or 6 units of electives to prepare for professional certification, licensure or credential.

- SPPA 6224 - Issues in Ethics *Units: 2*

- SPPA 6228 - School-based Issues in Speech-Language Pathology *Units: 2*
- SPPA 6229 - Medical Speech-Language Pathology *Units: 2*
- SPPA 6999 - Issues in Speech Pathology and Audiology *Units: 4*

Core Capstone Experiences (0-2 units)

Satisfactory achievement on a written or oral comprehensive examination, the format of which will be determined by the department (0-units), **OR** SPPA 6910 University Thesis *Units: 2*, including an oral examination.

The student need not have taken all required and elective courses for the major prior to completing the capstone experience; however, information contained in those courses may be included in the capstone experience.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Speech Pathology and Audiology Minor

Department & Faculty Information

Minor Requirements (32 units)

The minor consists of 32 units.

- COMM 1004 - Interpersonal Communication *Units: 4*
- SPPA 3852 - Speech, Language and Communication Development Across the Lifespan *Units: 4*
- SPPA 3854 - Anatomy and Physiology of Speech *Units: 4*
- SPPA 3855 - Phonetics *Units: 4*
- SPPA 3859 - Theory and Practice of Audiology I *Units: 4*
- SPPA 4854 - Diagnosis of Speech and Language Disorders *Units: 4*
- Select 4 units of upper-division coursework covering Aural Rehabilitation, with consent of advisor *Units: 4*
- Select 4 units of upper-division coursework covering Human Communication Theory, with consent of advisor *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Computer Science

The Department Office is located on the 5th Floor of the Student and Faculty Support (SF) building, Room 570.

Hours Open: 8:00 a.m. to 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-4300

Faculty

Professors Emeriti

Ytha Y. Yu, Ph.D. University of California, Berkeley

Associate Professor Emeritus

Dan Jurca, Ph.D. Northwestern University

Professors

Kevin A. Brown, Ph.D. University of South Carolina

Leann Christianson, Ph.D. University of South Carolina

Levent Ertaul, Ph.D. University of Sussex (United Kingdom)

Lynne L. Grewe, Ph.D. Purdue University

C. Matthew Johnson (Chair), Ph.D. College of William and Mary

Associate Professors

Farzan Roohparvar, Ph.D. Iowa State University

David Yang, Ph.D. Columbia University

Assistant Professors

Varick Erickson, Ph.D. University of California, Merced

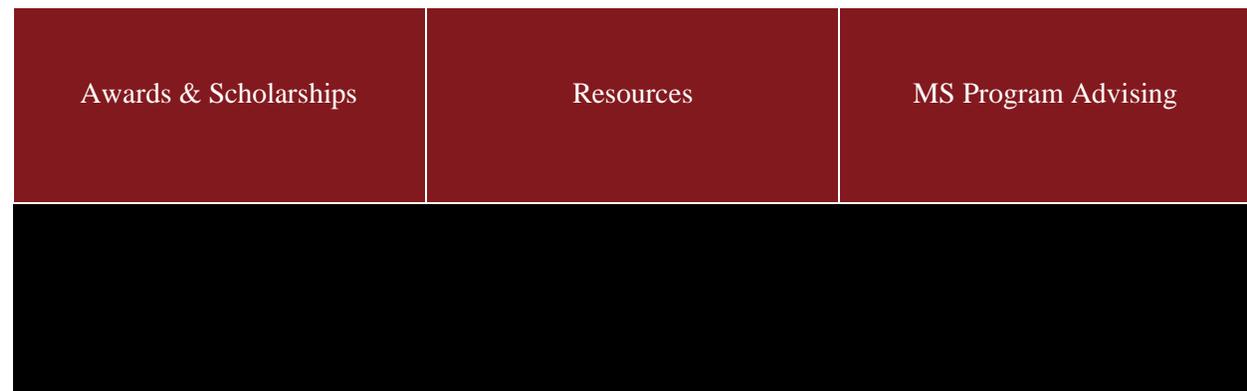
Jiaofei Zhong, Ph.D. The University of Texas at Dallas

Computer Science M.S. Graduate Coordinator: Kevin Brown

Computer Networks M.S. Graduate Coordinator: Leann Christianson

Department Statement

The Computer Science Department is a large and flourishing department, offering a variety of courses at a variety of times. The department consists of diverse full-time faculty, with a wide range of backgrounds and interests. The department offers over 40 undergraduate CS courses, 30 graduate CS courses. The department strives to provide a quality education to a diverse student community, and serves as one of the larger majors on campus.



Bachelor of Science

Computer Science, B.S.

Department & Faculty Information

Computer Science (B.S.) 180 units

Program Description

Programs in Computer Science at Cal State East Bay are designed to prepare students for employment or for advanced study in computer science. The student's course of study will provide a solid foundation of theoretical knowledge as well as experience with practical applications in hardware and software.

Computer Science is the study of computation and of methods for addressing, processing, storing, and transmitting information. It encompasses a broad perspective that includes what a computer is, its uses and applications, and theoretical approaches to what can be computed. The core curriculum in Computer Science, involving a blend of theory and practice, offers opportunities for problem solving in many areas and provides experience with a variety of computers, computer languages, and software packages. A typical student's experience can include scientific programming, language design and implementation, file handling and database design, data communication and networking, artificial intelligence, hardware design, and graphic implementations ranging from interface design to artistic presentations.

A strong mathematical background is important in Computer Science. High school students who are interested in computer science should take as much mathematics as possible, particularly algebra, trigonometry, and precalculus. Community college students who are planning to transfer to Cal State East Bay should take a two-course calculus sequence, linear algebra, discrete structures, a sequence of courses in some programming language (such as C, C++, Java), and a course in computer organization and assembly language.

Student Learning Outcomes

Students graduating with a B.S. in Computer Science from Cal State East Bay will be able to:

1. Apply knowledge of mathematics and computational theory to appropriate problems in computer science;
2. Analyze a problem, and identify and define the resources and requirements needed for its solution;
3. Design and implement a program to meet stated needs;
4. Develop and maintain computer-based systems, processes, and platforms
5. Recognize the mechanisms, components and architecture of computing systems
6. Employ current techniques, skills, and tools necessary for computing practice
7. Identify professional, ethical, legal, and security issues and responsibilities and the impact of computing on individuals, organizations, and society
8. Perform successfully on teams to accomplish a common goal, and communicate effectively in written and oral form.

Career Possibilities

- Computer Network Support Employee
- Computer Operations Manager
- Computer Sales Representative
- Customer Support Employee
- Database Applications Program Analyst or Designer
- Graphics Specialist
- Programmer or Administrator
- Programming Team Member, Specializing in Design, Testing, or Documentation
- Scientific Applications Programmer
- Software Engineer Systems Analyst
- Systems Manager or Programmer
- Technical Writer
- Teacher/Professor

Features

The University supports Computer Science with a variety of resources. Smart classrooms are equipped with at least one computer and projector. Several instructional classrooms also have student computers. Lab and classroom computers may be equipped with a variety of operating systems. Student dorm rooms are equipped high-speed Internet access.

Each year the department offers a number of scholarships covering a portion of fees for the subsequent year. Applications may be obtained from the department during Winter quarter.

Sample schedules, as well as further information about the computer science major, may be obtained electronically at: <http://www20.csueastbay.edu/csci/departments/math-cs/>. Staff in the Computer Science Student Service Center (SF 570) are available to answer questions regarding the program.

Preparation

For Advanced Placement course equivalencies, see: <http://www20.csueastbay.edu/ecat/files/docs/advplacexam.pdf>.

Major Requirements (B.S.) 84-92 units

Many students pursue a double major in Mathematics and Computer Science, since a number of courses are common to both majors and can be double-counted. Another popular combination is a major in computer science and a minor in mathematics.

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.S. degree requires a total of 180 units.

- The core major consists of 56 units;
- the elective units for the Non- Option consists of 28 units;
- the Computer Engineering Option consists of 36 units;
- the Networking and Data Communications Option consists of 36 units;
- the Software Engineering Option consists of 36 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Note: All Computer Science majors must complete all courses with a grade of "C-" or better in the following sections: Mathematics Core Requirements, Lower Division Core Requirements, and Upper Division Core Requirements. Students must take all courses in their major degree for a letter grade. The only exception is CS 3898 Coop which can be taken as credit/no credit. Only 4 units of CS 3898 Coop or CS 4900 Independent Study may be applied to the degree program.

Prerequisites

Students must have completed the prerequisites listed in the course description for any course they use to satisfy the following requirements. Note: Prerequisite units may not be included in total program units and therefore should be considered when planning your program roadmap. Consult with your

academic/faculty advisor or department for further information concerning prerequisites and program roadmaps.

Mathematics Core Requirements (20 units)

Note: A student who has recently taken a pre-calculus course in high school should be prepared to begin the calculus sequence. A student with three years of high school mathematics, including two years of algebra and one year of geometry, should be prepared to take MATH 1130, or possibly MATH 1300. Students who are unsure about what mathematics course to take should call the department office for advice.

It should be noted that students may not enroll in any baccalaureate level mathematics or computer science class unless they have met the Entry Level Mathematics (ELM) requirement or are exempt from it. Information about the ELM is available from the Testing Office at (510) 885-3661.

Five courses required:

- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2150 - Discrete Structures *Units: 4*

Choice of:

- STAT 3401 - Introduction to Probability Theory I *Units: 4*
 - STAT 3502 - Statistical Inference I *Units: 4*
 - STAT 3601 - Statistics and Probability for Science and Engineering I *Units: 4 **
- Recommended

Lower Division Core Requirements (16 units)

Note: Although CS 1160 is the required introductory course for Computer Science majors, it may be difficult for students with no experience using computers. Students who do not know how to use a word processor or who have no knowledge of computer files and operating systems should consider taking CS 1020 Introduction to Computers before taking CS 1160.

Students who have completed a multi-quarter course in C, C++, Java, or Pascal at another college should consult the Mathematics/Computer Science Department; they may be able to substitute their previous coursework for CS 1160 and possibly CS 2360 and CS 2370.

Lower division required courses:

- CS 1160 - Introduction to Computer Science I *Units: 4*
- CS 2360 - Introduction to Computer Science II *Units: 4*
- CS 2370 - Introduction to Computer Science III *Units: 4*
- CS 2430 - Computer Organization and Assembly Language Programming *Units: 4*

Upper Division Core Requirements (20 units)

Required courses:

- CS 3120 - Programming Language Concepts *Units: 4*
- CS 3240 - Data Structures and Algorithms *Units: 4*
- CS 3340 - Introduction to Object-Oriented Programming and Design *Units: 4*
- CS 3430 - Computer Architecture *Units: 4*
- CS 4560 - Operating Systems *Units: 4*

Computer Science Electives (28 units)

An additional 28 units of Computer Science elective courses is required. The selection of all elective Computer Science courses is important in giving the major a coherence, with depth in key areas.

Four courses (16 units) required:

- CS 3560 - Introduction to Systems Programming *Units: 4*
- CS 3590 - Data Communications and Networking *Units: 4*
- CS 3750 - Numerical Analysis I *Units: 4*
or cross-listed MATH 3750
- CS 4110 - Compiler Design *Units: 4*
- CS 4170 - Theory of Automata *Units: 4*
- CS 4245 - Analysis of Algorithms *Units: 4*
- CS 4310 - Software Engineering I *Units: 4*
- CS 4660 - Database Architecture *Units: 4*

Additional Electives

Any of the following courses may be used in meeting the additional 12-unit elective requirement. However, at least 4 units (other than units from CS 3898 must be from courses with the CS prefix. The student is responsible for meeting all prerequisites for any of these courses.

- Any course(s) from CS Concentration group not used in meeting the requirements in that category
- Any upper division course in CS except those used in meeting requirements in other categories
- Any graduate course in CS except CS 6000 and CS 6909
- Any upper division course in the Department of Mathematics and Computer Science or the Department of Statistics that is applicable to the BS degree major in Mathematics
- Any course from the following list (**These courses have prerequisites that are not included among major requirements**):
- CMPE 3010 Electric Circuit Theory II
- PHIL 3002 Modern Logic
- PHYS 3280 Electronics

Note: Students contemplating graduate study in Computer Science should consult with a faculty advisor early in their programs. They should be sure to include an adequate number of theory courses in their major and should have an extensive background in Mathematics.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Science

Computer Networks, M.S.

Department & Faculty Information

Computer Networks (M.S.) 45 units

Program Description

The Department of Computer Science offers graduate study leading to the degree of Master of Science in Computer Networks. The program provides opportunities for students to gain a deeper understanding of the basis for computer networking technology and its application to communication infrastructures. It is designed to offer both a theoretical background and practical experience beyond that covered in typical undergraduate degree programs. A theoretical background to support hands-on learning is imperative as the computer network industry and its technologies are transitory and rapidly evolving. Students can expect to have a number of different job classifications during their working lives.

The area of computer networks requires a variety of skills including knowledge and experience with computer network protocols, routing algorithms, network congestion control, error handling, network management, data compression and encryption, switching algorithms, operating systems principles and practices, computer architecture, and software development. Computer network theory rests upon engineering principles and concepts that draw upon mathematics and physics.

Our program features small classes that allow for close contact between students and faculty. Many graduate classes are offered in the late afternoon or early evening, making it possible for working students to attend. Courses toward the M.S. degree may also be taken during the summer quarter. Students may begin their studies in Fall, Winter, or Spring quarters.

Students interested in the M.S. degree program in Computer Networks should speak with the Computer Networks Graduate Coordinator.

Student Learning Outcomes

- Students who graduate with a Master's degree in Computer Networks will be able to:
- Exhibit mastery of advanced computer science theory as applied to the field of computer networks.
- Employ current techniques, skills, tools, and coding practices necessary for application and system development.
- Apply critical thinking and problem solving skills by analyzing problems, designing solutions, and evaluating results.
- Demonstrate communication skills in both written and oral form, and work in a team environment.

- Independently acquire new computer related skills through analysis of current computer science literature and industrial practices.

Career Opportunities

Network Engineer

Software Engineer

Network Administrator

Network Applications Programmer

Web/Multimedia Manager

Webmaster

Network Security Administrator

Programming Team Member, possibly specializing in Design, Testing, or Documentation

Computer Network Support

Computer Sales Representative

Customer Support

Technical Writer

Teacher/Professor

Faculty

The faculty of the Computer Science Department hold doctorates in a wide variety of areas. They have a strong commitment to high quality teaching, and have interests in fields such as wireless and mobile networking, network security, data compression, computer graphics, numerical analysis, compiler design, computer simulation, parallel programming, computer architecture, automata, multimedia, cryptography, computational complexity, language design and implementation, graph theory, microcomputer architecture, and database systems.

Features

There are multiple PC labs around campus as well as wireless network access. The department runs a grid computing laboratory and has classrooms equipped for computerized demonstration.

Scholarships

Each year the department awards several scholarships for the subsequent year. Scholarship applications may be obtained from the department office during the Spring quarter.

Admission

To apply for admission to the Master of Science program in Computer Networks, a student must submit the proper forms, fees and transcripts to the university's Office of the Registrar, which reviews each application initially. The department then reviews the application, making the decision whether to accept or reject the applicant. Each applicant must also have their scores on the general portion of Graduate Record Examination (GRE) sent directly to the Office of Admissions.

A student wishing to enter this program typically has an undergraduate degree in Computer Science or in a related field, with courses in Computer Science as indicated below, and must have a grade point average of 2.75 in all undergraduate work and a 3.00 grade point average in the Computer Science Core courses listed below.

Computer Networks Admission Requirements

CS 2430 - Computer Organization and Assembly Language Programming Units: 4

CS 3240 - Data Structures and Algorithms Units: 4

CS 3430 - Computer Architecture Units: 4

CS 3590 - Data Communications and Networking Units: 4

CS 4560 - Operating Systems Units: 4

or CS 3560 - Introduction to Systems Programming Units: 4

CS 4590 - Computer Networks Units: 4

Successful completion of equivalents to all the following mathematics requirements is also required.

Mathematics Requirements for Admission

MATH 2150 - Discrete Structures Units: 4

An upper division course in probability or statistics

STAT 3601 - Statistics and Probability for Science and Engineering I Units: 4

STAT 3401 - Introduction to Probability Theory I Units: 4

STAT 3502 - Statistical Inference I Units: 4

A student who has not met all of the above course requirements may be admitted to the program at the discretion of the department as a "Conditionally Classified Graduate" student, provided the student's record clearly demonstrates the capability of meeting all these requirements.

No more than 20 quarter units taken while in "Conditionally Classified Graduate" status may be applied to the degree. Note that courses used to make up deficiencies for admission may not be applied toward the master's degree. A "Conditionally Classified Graduate" student who has no course deficiencies, a "B" or better average in at least 12 quarter units of post-baccalaureate study, and has satisfied the University

Writing Skills Requirement should petition the graduate coordinator for admission to the master's degree program with "Classified Graduate" status. A maximum of 13 units taken as an "Unclassified Post-baccalaureate" student may be applied to a master's degree.

Advancement to Candidacy

Advancement to Candidacy is a university requirement for graduation for a master's degree program. A student with "Classified Graduate" status may apply for Advancement to Candidacy after completing at least 16 quarter units towards the master's degree with a "B" average, including at least two 6000 level Computer Science courses with a "B" or better average.

Before being Advanced to Candidacy, a student's complete course of study must be approved by the Computer Networks Graduate Committee.

Degree Requirements

At least 45 quarter units of approved upper division and graduate work. Of these, at least 26 units must be approved graduate (6000- level) courses. All work toward the 45 units must be at an average grade of "B" (3.0) or higher. Grades below "C" will not be counted as prerequisites or toward the degree.

The following departmental requirements are in addition to the university requirements noted below.

Required Courses (12 units)

- CS 6560 - Operating Systems Design *Units: 4*
- CS 6580 - Distributed Systems *Units: 4*
- CS 6591 - Communication Network Analysis and Design *Units: 4*

Breadth Requirements (16 units)

Four courses selected from the following:

Note: Some of the breadth requirement courses contain prerequisites that are not included in the program admission requirements.

- CS 6320 - Software Engineering of Web-Based Systems *Units: 4*
- CS 6522 - Advanced WWW Software Development *Units: 4*
- CS 6525 - Network Security *Units: 4*
- CS 6526 - Security in Wireless, Mobile, Grid and Pervasive Computing *Units: 4*
- CS 6527 - Network Security Management *Units: 4*
- CS 6592 - Network Management *Units: 4*
- CS 6594 - Broadband and Multimedia Networks *Units: 4*
- CS 6596 - Wireless and Mobile Network Architecture *Units: 4*
- CS 6715 - Data Compression *Units: 4*

Elective Courses (12 units)

Any graduate course in Computer Science may be applied to this category. Any Computer Science course numbered 3000 (except CS 3898) or higher, provided it has not been already applied toward a B.S. degree or toward prerequisites for admission. This restriction includes equivalent courses from other degree programs; exceptions require the approval of the Computer Networks Graduate Committee.

Capstone Experience (5 units)

The capstone experience consists of a project, normally involving a team of students, and an individual formal document from each student. Projects must be approved by a designated faculty committee and sponsored by a faculty advisor.

- CS 6899 - Project *Units: 5*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Computer Science, M.S.

Department & Faculty Information

Computer Science (M.S.) 45 units

Program Description

The Computer Science Department offers graduate study leading to the degree of Master of Science in Computer Science. This program is designed to extend the student's knowledge in a broad manner beyond the baccalaureate degree major in Computer Science. It will both (1) deepen general understanding of theoretical principles and (2) provide specific professional background. This approach is especially important in Computer Science, where training in specific languages and systems and on specific machines is transitory, as these languages, systems, and machines evolve. In contrast, many of the principles will last and generally apply to a wide variety of specializations within the field. This breadth is important to individual students because many of them will have a number of different job classifications in their working lives.

Our program features small classes that allow for close contact between students and faculty. Some graduate classes are offered in the late afternoon or early evening, making it possible for working students to attend. Some courses toward the M.S. degree may also be taken during the summer quarter. Students may begin their studies in any one of the four quarters.

Students interested in the M.S. degree program in Computer Science should speak with the Computer Science Graduate Coordinator. The Computer Science Department also offers a Master of Science degree program in Computer Networks.

Student Learning Outcomes

Students graduating with an M.S. in Computer Science will be able to:

- apply advanced computer science theory to problems;
- demonstrate advanced understanding of the mechanisms, components and architecture of current computing systems;
- generate and process useful representations of knowledge;
- critique, plan and produce complex software applications, and
- research and analyze current computer science literature.

Career Opportunities

Systems Analyst

Program Analyst or Designer

Systems Manager or Programmer

Scientific Applications Programmer

Computer Operations Manager

Graphics Specialist

Software Engineer

Programming Team Member, possibly specializing in Design, Testing, or Documentation

Computer Network Support

Database Applications Programmer or Administrator

Computer Sales Representative

Customer Support

Technical Writer

Teacher/Professor

Faculty

The faculty of the Computer Science Department hold doctorates in a wide variety of areas. They have a strong commitment to high quality teaching, and have interests in fields such as computer graphics, networks, numerical analysis, compiler design, computer simulation, parallel programming, computer

architecture, automata, multimedia, cryptography, computational complexity, language design and implementation, graph theory, microcomputer architecture, and database systems.

Features

Computer Science students at Cal State East Bay have access to some of the most modern and powerful computer equipment available. The campus provides a network backbone, including connection to the Internet, personal computers, and wireless network access.

Cal State has an active Computing Club, which hosts industry tours as well as academic and social events and is involved with a number of ongoing projects.

Scholarships

Each year the department awards a number of scholarships covering a large portion of the fees for the subsequent year. Scholarship applications may be obtained from the department office during the Winter quarter.

Admission

To apply for admission to the Master of Science program in Computer Science, a student must submit the proper forms, fees and transcripts to the university's Office of Admissions, which reviews each application initially. Each applicant must also have their scores on the general portion of the Graduate Record Examination (GRE) sent directly to the Office of Admissions. The department then reviews the application, making the decision whether to accept or reject the applicant.

A student wishing to enter this program must normally have an undergraduate degree in Computer Science or in a related field, with courses in Computer Science as indicated below, and must have a grade point average of 2.75 in all undergraduate work and a 3.00 grade point average in the Computer Science Core and Mathematics courses listed below.

Computer Science Admission Requirements

Thirty-two (32) quarter units (8 courses) of upper division Computer Science coursework that covers a broad range of Computer Science and includes the following five courses or their equivalents.

CS 3120 Programming Language Concepts Units: 4

CS 3240 Data Structures and Algorithms Units: 4

CS 3340 Introduction to Object-Oriented Programming and Design Units: 4

CS 3430 Computer Architecture Units: 4

CS 4560 Operating Systems Units: 4

Successful completion of prerequisites to the above computer science courses is also required. These include:

CS 1160 Introduction to Computer Science I Units: 4

CS 2360 Introduction to Computer Science II Units: 4

CS 2370 Introduction to Computer Science III Units: 4

CS 2430 Computer Organization and Assembly Language Programming Units: 4

Mathematics Requirements for Admission

Successful completion of equivalent courses and prerequisites for all mathematics requirements is also required.

MATH 2101 Elements of Linear Algebra Units: 4

MATH 2150 Discrete Structures Units: 4

A year of Calculus

MATH 1304 Calculus I Units: 4

MATH 1305 Calculus II Units: 4

Probability or Statistics Requirements for Admission

One upper division course (and any prerequisites) from the following list is required::

STAT 3401 Introduction to Probability Theory I Units: 4

STAT 3502 Statistical Inference I Units: 4

STAT 3601 Statistics and Probability for Science and Engineering I Units: 4

A student who has not met all of the above requirements may be admitted to the program at the discretion of the department as a "Conditionally Classified Graduate" student, provided the student's record clearly demonstrates the capability of meeting all these requirements.

No more than 20 quarter units taken while in "Conditionally Classified Graduate" status may be applied to the degree. Note that courses used to make up deficiencies for admission may not be applied toward the master's degree. A "Conditionally Classified Graduate" student who has no course deficiencies, a "B" or better average in at least 12 quarter units of post-baccalaureate study, and has satisfied the University Writing Skills requirement should petition the graduate coordinator for admission to the master's degree program with "Classified Graduate" status. A maximum of 13 units taken as an "Unclassified Post-baccalaureate" student may be applied to a master's degree.

Advancement to Candidacy

Advancement to Candidacy is a university requirement for graduation from a master's degree program. A student with "Classified Graduate" status may apply for Advancement to Candidacy after completing at least 16 quarter units towards the master's degree with a "B" average, including at least two 6000 level Computer Science courses with a "B" or better average.

Before Advancement to Candidacy, a student's complete course of study must be approved by the Computer Science Graduate Coordinator.

Degree Requirements 45 units

At least 45 quarter units of approved upper division and graduate work. Of these, at least 26 units must be approved graduate (6000- level) courses. All work toward the 45 units must be at an average grade of "B" (3.0) or higher. Grades below "C" will not be counted as prerequisites or toward the degree.

Note: Courses equivalent to CS 6170 Automata and Formal Languages and CS 4245 Analysis of Algorithms must be taken if not completed before admission to the M.S. program.

The following departmental requirements are in addition to the university requirements:

Prerequisites

Students must have completed the prerequisites listed in the course descriptions for any course they use to satisfy the following requirements. Note: Prerequisite units may not be included in total program units and therefore should be considered when planning your program roadmap. Consult with your academic advisor or department for further information concerning prerequisites and program roadmaps.

Required Courses (10 units)

- CS 6000 - Research Methodologies *Units: 2*
- CS 6260 - Computation and Complexity *Units: 4*
- CS 6560 - Operating Systems Design *Units: 4*

Breadth Requirements (16 units)

Two courses from each of the following two categories for 16 units.

Development / Theory

- CS 6170 - Automata and Formal Languages *Units: 4*
- CS 6310 - Advanced Software Engineering *Units: 4*
- CS 6320 - Software Engineering of Web-Based Systems *Units: 4*
- CS 6520 - Cryptography and Data Security *Units: 4*
- CS 6522 - Advanced WWW Software Development *Units: 4*
- CS 6715 - Data Compression *Units: 4*
- CS 6750 - Topics in Numerical Analysis *Units: 4*
or MATH 6750 Topics in Advanced Numerical Analysis
- CS 6810 - Topics in Artificial Intelligence *Units: 4*
- CS 6820 - Machine Learning *Units: 4*

- CS 6870 - Computer Simulation *Units: 4*

Systems / Architecture

- CS 6110 - Theory and Design of Compilers *Units: 4*
- CS 6525 - Network Security *Units: 4*
- CS 6570 - Distributed Computation *Units: 4*
- CS 6580 - Distributed Systems *Units: 4*
- CS 6660 - Database Systems *Units: 4*
- CS 6752 - Digital Signal Processing *Units: 4*
- CS 6825 - Computer Vision *Units: 4*

Elective Courses (14-18 units)

The following courses (or their equivalents) may be counted toward the master's degree:

- Any graduate course in Computer Science (except CS 6899) may be applied to this category.
- Any Computer Science course numbered 3000 (except CS 3898) or higher, provided it has not been already applied toward a B.S. degree or toward prerequisites for admission. This restriction includes equivalent courses from other degree programs; exceptions require the approval of the Computer Science Graduate Committee.
- MATH 3151 - Combinatorics *Units: 4*
- MATH 4151 - Graph Theory *Units: 4*

Capstone Experience (1-5 units)

A student must select and satisfy one of the following capstone requirements:

- CS 6901 - Graduate Synthesis in Computer Science *Units: 4*
Note: A student must successfully complete at least 30 units of study including all required courses (CS 6000, 6260, and 6560), satisfy the WST requirement, and be in good standing before enrolling in CS 6901.
- CS 6909 - Departmental Thesis *Units: 1-5*
Note: Students who write a thesis must have an advisor who agrees to oversee the work, and must have the proposed topic approved by the Computer Science Graduate Studies Committee.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Computer Science Minor

Department & Faculty Information

Minor Requirements (36 units)

Students majoring in other fields may wish to complete a coherent pattern of work in Computer Science or Software Development for the purpose of expanding their employment and educational opportunities.

Prerequisites

Students must have completed the prerequisites listed in the course descriptions for any course they use to satisfy the following requirements. Note: Prerequisite units may not be included in total program units and therefore should be considered when planning your program roadmap. Consult with your academic advisor or department for further information concerning prerequisites and program roadmaps.

Lower Division Courses (24 units)

- CS 1160 - Introduction to Computer Science I *Units: 4*
- CS 2360 - Introduction to Computer Science II *Units: 4*
- CS 2370 - Introduction to Computer Science III *Units: 4*
- CS 2430 - Computer Organization and Assembly Language Programming *Units: 4*
- MATH 1304 - Calculus I *Units: 4*
- MATH 2150 - Discrete Structures *Units: 4*

Upper Division Courses (12 units)

Two courses (8 units) from the following list:

- CS 3120 - Programming Language Concepts *Units: 4*
- CS 3240 - Data Structures and Algorithms *Units: 4*
- CS 3430 - Computer Architecture *Units: 4*
- CS 4560 - Operating Systems *Units: 4*

Plus one additional CS course:

- One upper division Computer Science elective (4 units) chosen with the assistance and approval of a faculty advisor.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Software Development Minor

Department & Faculty Information

Minor Requirements (36 units)

Prerequisite Units

Note: the following are prerequisite units not included in the 36 for the minor:

- CS 1020 Introduction to Computers (Units 4)
- CS 2430 Computer Organization and Assembly Language Programming (Units 4)
- MATH 1130 College Algebra or department permission (Units 4)
- MATH 1300 Trigonometry and Analytic Geometry (Units 4)

Required Courses (28 units)

- CS 1160 - Introduction to Computer Science I *Units: 4*
- CS 2360 - Introduction to Computer Science II *Units: 4*
- CS 2370 - Introduction to Computer Science III *Units: 4*
- MATH 1304 - Calculus I *Units: 4*
- MATH 2150 - Discrete Structures *Units: 4*
- CS 3240 - Data Structures and Algorithms *Units: 4*
- CS 4310 - Software Engineering I *Units: 4*

Electives (8 units)

Choice of two (2) courses from the following:

- CS 3340 - Introduction to Object-Oriented Programming and Design *Units: 4*
- CS 3520 - Web Site Development *Units: 4*
- CS 3560 - Introduction to Systems Programming *Units: 4*
- CS 4660 - Database Architecture *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Criminal Justice

The department office is located on the 4th Floor, in the Student and Faculty Services (SF) building, Room 402.

The department is open during regular business hours: 8:00 a.m. - 5:00 p.m., Monday thru Friday

Dept. Phone: (510) 885-3590

Faculty

Professor

Silvina Ituarte, Ph.D. Rutgers University

Associate Professors

Keith Inman, M.Crim. University of California, Berkeley

Dawna Komorosky (Chair), Ph.D. Indiana University of Pennsylvania

Assistant Professors

Sanjay Marwah, Ph.D. George Mason University

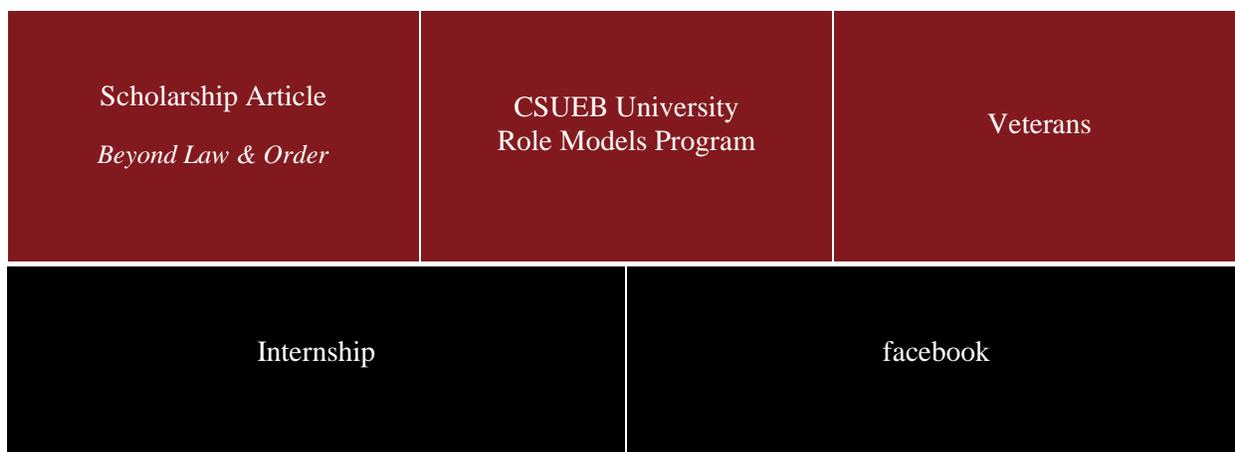
Amanda Matravers, Ph.D. University of Cambridge (United Kingdom)

Michelle Rippy, MFS National University

Glenn Trager, Ph.D. University of California, Irvine

Department Statement

The Department of Criminal Justice, established in 1976, offers an under-graduate program leading to a degree of Bachelor of Science, as well as a minor, in Criminal Justice Administration. The undergraduate program is designed for the academic development of knowledge and understanding of practices, theories, and concepts of justice administration, as well as to prepare students for professional careers in justice administration, law enforcement, corrections, and graduate studies.



Bachelor of Science

Criminal Justice Administration, Community Alternatives and Corrections Option, B.S.

Department & Faculty Information

Criminal Justice Administration (B.S.) 180 units

Program Description

The Department of Criminal Justice Administration offers an undergraduate program designed for the development of knowledge and understanding of practices, theory, and concepts of justice administration, as well as to prepare students for professional careers in justice administration, law enforcement, corrections, victim advocacy, law, and community-based programs. The major includes two specialized options and the student selects one depending on her/his career interest.

The Justice and Enforcement option affords the opportunity to work in government agencies and private organizations offering challenging positions in crime prevention, control, and investigation. It is designed for students interested in careers with federal, state, and local law enforcement agencies, or in law enforcement within the private sector. Employment opportunities include administrators of institutional programs, consultants to groups in mobilizing resources to combat social problems, and social scientists working toward understanding individual and group behavior and social control by means of law.

The Community Alternatives and Corrections option is designed for students interested in careers in probation, parole, correctional institutions, and affiliated forms of work. It primarily focuses on probation-related services including investigation of case histories, assessment of treatment needs, advisement to the court, and the operation of diverse types of correctional and community-based programs.

Many local, state, federal and private agencies employ Cal State East Bay criminal justice graduates. Senior majors may qualify for internship placement in criminal justice agencies throughout the Bay Area.

Local level agencies include municipal police departments, county sheriffs' offices, probation departments, halfway and pre-release houses, group homes, crisis centers, juvenile halls, welfare fraud

units, computer crime analysis, and retail and industrial security agencies. State level agencies include: Highway Patrol, California Department of Corrections and Rehabilitation, Department of Motor Vehicles, and Departments of Justice, Fish and Game, and Forestry. Federal level agencies include the Border Patrol; F.B.I.; Secret Service; Bureau of Alcohol, Tobacco and Firearms; Internal Revenue Service; National Park Service; Customs; Postal Inspection Service; and Federal Prisons.

Student Learning Outcomes

Students graduating with a B.S. in Criminal Justice Administration from Cal State East Bay will be able to:

Analyze and discuss issues of crime and justice from different perspectives that reflect critical and independent thinking;

Communicate, present, and discuss ideas and issues in one-on-one or group settings (Oral Communication), and write effectively, following appropriate writing styles as commonly practiced in the social sciences;

Apply knowledge of diversity and multicultural competencies to criminal justice strategies that will promote equity and social justice in every community;

Work collaboratively and respectfully as members and leaders of diverse teams and communities;

Demonstrate an understanding of how the ethical and responsible application of criminal justice regulates human conduct and sustains stability in society; and

Apply appropriate knowledge and skills necessary for a vital career in criminal justice and related professions.

Career Opportunities

- Family Violence, Crisis, or Shelter Counselor
- Community Agency Counselor
- Community Service Coordinator
- Consumer Affairs Director
- Probation, Parole, and Corrections Officer
- Deputy Insurance Commissioner
- Equal Opportunity Representative
- ATF, CIA, FBI Agent
- Group Worker
- Insurance Investigator
- Investigator
- Loss Prevention Specialist
- Park Ranger
- Police Administrator
- Police Officer
- Security Manager
- Social Worker
- Vocational Rehabilitation Officer

Preparation

It is strongly recommended that students complete the lower division (1000-2000) courses before taking the upper division courses.

Major Requirements (B.S.) 78 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.S. degree requires a total of 180 units.

- The core major consists of 62 units;
 - the Community Alternatives and Corrections Option consists of 16 units;
 - the Justice and Enforcement Option consists of 16 units.
 - GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
 - *Free Electives (if any) will make up the remainder units to reach 180 total units (see your advisor).*
- Note: Credit/No Credit (CR/NC) grading is not permitted for classes used to meet the major requirements. A grade of C (2.0) or higher is required for all courses to be counted toward the major.**

Lower Division Core (34 units)

- CRJA 2100 - Elementary Criminal Law *Units: 4*
- CRJA 2200 - Basic Criminal Investigation *Units: 4*
- CRJA 2400 - Evidence in Corrections and Law Enforcement *Units: 4*
- CRJA 2500 - Administration of Justice *Units: 4*
- CRJA 2600 - Police Community Relations *Units: 4*
- PSYC 1000 - General Psychology *Units: 5*
- SOC 1000 - Introduction to Sociology *Units: 4*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*

Upper Division Core (16 units)

- CRJA 3200 - Research Methods in Criminal Justice *Units: 4*
- CRJA 3700 - Ethics and Justice Administration *Units: 4*
- CRJA 4127 - Crime Theory *Units: 4*

- CRJA 4770 - Criminal Law and the Courts *Units: 4*
- or*
- POSC 3410 - Law and Society *Units: 4*

Specialized Core Electives (12 units)

Choose 12 units of elective coursework not duplicated as part of an option. Upon faculty advisement and approval, additional courses may also apply.

- CRJA 3100 - Corrections and Criminal Justice *Units: 4*
- CRJA 3300 - Crime Prevention and Control *Units: 4*
- CRJA 3350 - Crime and Criminal Justice in the Media and Cinema *Units: 4*
- CRJA 3400 - Advanced Criminal Investigation *Units: 4*
- CRJA 3500 - Criminal Identification *Units: 4*

- CRJA 3610 - Police Organization and Management *Units: 4*
- CRJA 3750 - Family Violence and the Criminal Justice System *Units: 4*
- CRJA 3800 - Comparative Evidence and Its Evaluation *Units: 4*
- CRJA 3999 - Issues in Criminal Justice *Units: 4*
- CRJA 4123 - The Crime Victim *Units: 4*
- CRJA 4124 - Sex Crime Investigation *Units: 4*
- CRJA 4125 - Women in Criminal Justice *Units: 4*
- CRJA 4128 - Internship in Criminal Justice *Units: 4*
- CRJA 4330 - Prejudice, Violence, and Hate Crimes *Units: 4*
- CRJA 4530 - Youth Crime & Empowerment: Experiential Learning *Units: 4*
- CRJA 4700 - Community Based Corrections *Units: 4*
- CRJA 4710 - Drugs, Law, and Society: Race, Gender and U.S. Drug Policy *Units: 4*
- CRJA 4730 - Restorative Justice *Units: 4*
- CRJA 4770 - Criminal Law and the Courts *Units: 4*

Option Requirements

An additional 16 units of concentration coursework is required. Students select one option to complete the major:

- Criminal Justice Administration, Community Alternatives and Corrections Option, B.S.
- Criminal Justice Administration, Justice and Enforcement Option, B.S.

Community Alternatives and Corrections Option (16 units)

Students who elect to take this option must complete each of the following four courses:

- CRJA 3100 - Corrections and Criminal Justice *Units: 4*
- CRJA 4123 - The Crime Victim *Units: 4*
- CRJA 4700 - Community Based Corrections *Units: 4*
- CRJA 4730 - Restorative Justice *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Criminal Justice Administration, Justice and Enforcement Option, B.S.

Department & Faculty Information

Criminal Justice Administration (B.S.) 180 units

Program Description

The Department of Criminal Justice Administration offers an undergraduate program designed for the development of knowledge and understanding of practices, theory, and concepts of justice administration, as well as to prepare students for professional careers in justice administration, law enforcement, corrections, victim advocacy, law, and community-based programs. The major includes two specialized options and the student selects one depending on her/his career interest.

The Justice and Enforcement option affords the opportunity to work in government agencies and private organizations offering challenging positions in crime prevention, control, and investigation. It is designed for students interested in careers with federal, state, and local law enforcement agencies, or in law enforcement within the private sector. Employment opportunities include administrators of institutional programs, consultants to groups in mobilizing resources to combat social problems, and social scientists working toward understanding individual and group behavior and social control by means of law.

The Community Alternatives and Corrections option is designed for students interested in careers in probation, parole, correctional institutions, and affiliated forms of work. It primarily focuses on probation-related services including investigation of case histories, assessment of treatment needs, advisement to the court, and the operation of diverse types of correctional and community-based programs.

Many local, state, federal and private agencies employ Cal State East Bay criminal justice graduates. Senior majors may qualify for internship placement in criminal justice agencies throughout the Bay Area.

Local level agencies include municipal police departments, county sheriffs' offices, probation departments, halfway and pre-release houses, group homes, crisis centers, juvenile halls, welfare fraud units, computer crime analysis, and retail and industrial security agencies. State level agencies include: Highway Patrol, California Department of Corrections and Rehabilitation, Department of Motor Vehicles, and Departments of Justice, Fish and Game, and Forestry. Federal level agencies include the Border Patrol; F.B.I.; Secret Service; Bureau of Alcohol, Tobacco and Firearms; Internal Revenue Service; National Park Service; Customs; Postal Inspection Service; and Federal Prisons.

Student Learning Outcomes

Students graduating with a B.S. in Criminal Justice Administration from Cal State East Bay will be able to:

Analyze and discuss issues of crime and justice from different perspectives that reflect critical and independent thinking;

Communicate, present, and discuss ideas and issues in one-on-one or group settings (Oral Communication), and write effectively, following appropriate writing styles as commonly practiced in the social sciences;

Apply knowledge of diversity and multicultural competencies to criminal justice strategies that will promote equity and social justice in every community;

Work collaboratively and respectfully as members and leaders of diverse teams and communities;

Demonstrate an understanding of how the ethical and responsible application of criminal justice regulates human conduct and sustains stability in society; and

Apply appropriate knowledge and skills necessary for a vital career in criminal justice and related professions.

Career Opportunities

- Family Violence, Crisis, or Shelter Counselor
- Community Agency Counselor
- Community Service Coordinator
- Consumer Affairs Director
- Probation, Parole, and Corrections Officer
- Deputy Insurance Commissioner
- Equal Opportunity Representative
- ATF, CIA, FBI Agent
- Group Worker
- Insurance Investigator
- Investigator
- Loss Prevention Specialist
- Park Ranger
- Police Administrator
- Police Officer
- Security Manager
- Social Worker
- Vocational Rehabilitation Officer

Preparation

It is strongly recommended that students complete the lower division (1000-2000) courses before taking the upper division courses.

Major Requirements (B.S.) 78 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.S. degree requires a total of 180 units.

- The core major consists of 62 units;
- the Community Alternatives and Corrections Option consists of 16 units;
- the Justice and Enforcement Option consists of 16 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 total units (see your advisor).*

Note: Credit/No Credit (CR/NC) grading is not permitted for classes used to meet the major requirements. A grade of C (2.0) or higher is required for all courses to be counted toward the major.

Lower Division Core (34 units)

- CRJA 2100 - Elementary Criminal Law *Units: 4*
- CRJA 2200 - Basic Criminal Investigation *Units: 4*
- CRJA 2400 - Evidence in Corrections and Law Enforcement *Units: 4*
- CRJA 2500 - Administration of Justice *Units: 4*
- CRJA 2600 - Police Community Relations *Units: 4*
- PSYC 1000 - General Psychology *Units: 5*
- SOC 1000 - Introduction to Sociology *Units: 4*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*

Upper Division Core (16 units)

- CRJA 3200 - Research Methods in Criminal Justice *Units: 4*
- CRJA 3700 - Ethics and Justice Administration *Units: 4*
- CRJA 4127 - Crime Theory *Units: 4*

- CRJA 4770 - Criminal Law and the Courts *Units: 4*
or
- POSC 3410 - Law and Society *Units: 4*

Specialized Core Electives (12 units)

Choose 12 units of elective coursework not duplicated as part of an option. Upon faculty advisement and approval, additional courses may also apply.

- CRJA 3100 - Corrections and Criminal Justice *Units: 4*
- CRJA 3300 - Crime Prevention and Control *Units: 4*
- CRJA 3350 - Crime and Criminal Justice in the Media and Cinema *Units: 4*
- CRJA 3400 - Advanced Criminal Investigation *Units: 4*
- CRJA 3500 - Criminal Identification *Units: 4*
- CRJA 3610 - Police Organization and Management *Units: 4*
- CRJA 3750 - Family Violence and the Criminal Justice System *Units: 4*
- CRJA 3800 - Comparative Evidence and Its Evaluation *Units: 4*
- CRJA 3999 - Issues in Criminal Justice *Units: 4*
- CRJA 4123 - The Crime Victim *Units: 4*
- CRJA 4124 - Sex Crime Investigation *Units: 4*
- CRJA 4125 - Women in Criminal Justice *Units: 4*
- CRJA 4128 - Internship in Criminal Justice *Units: 4*
- CRJA 4330 - Prejudice, Violence, and Hate Crimes *Units: 4*
- CRJA 4530 - Youth Crime & Empowerment: Experiential Learning *Units: 4*
- CRJA 4700 - Community Based Corrections *Units: 4*
- CRJA 4710 - Drugs, Law, and Society: Race, Gender and U.S. Drug Policy *Units: 4*
- CRJA 4730 - Restorative Justice *Units: 4*

- CRJA 4770 - Criminal Law and the Courts *Units: 4*

Option Requirements

An additional 16 units of concentration coursework is required. Students select one option to complete the major:

- Criminal Justice Administration, Community Alternatives and Corrections Option, B.S.
- Criminal Justice Administration, Justice and Enforcement Option, B.S.

Justice and Enforcement Option (16 units)

Students who elect to take this option must complete each of the following four courses:

- CRJA 3300 - Crime Prevention and Control *Units: 4*
- CRJA 3400 - Advanced Criminal Investigation *Units: 4*
- CRJA 3610 - Police Organization and Management *Units: 4*
- CRJA 3800 - Comparative Evidence and Its Evaluation *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

Criminal Justice Administration Minor

Department & Faculty Information

The purpose of the minor is to provide interested students with the opportunity to study the central areas of criminal justice. The selected courses will offer instruction in law, law enforcement, ethics, corrections and the courts. The minor allows those students with career plans in the social services and business administration to acquire knowledge of criminal justice, a career area with high employment prospects.

Minor Requirements (33 units)

The minor consists of 33 units. Credit/No Credit (CR/NC) grading is not permitted for classes used to meet minor requirements.

I. Lower Division (12 units)

- CRJA 2100 - Elementary Criminal Law *Units: 4*
- CRJA 2200 - Basic Criminal Investigation *Units: 4*
- CRJA 2500 - Administration of Justice *Units: 4*

II. Lower Division Statistics Requirement (5 units)

- STAT 1000 - Elements of Probability and Statistics *Units: 5*

III. Upper Division Requirements (16 units)

- CRJA 3100 - Corrections and Criminal Justice *Units: 4*
- CRJA 3300 - Crime Prevention and Control *Units: 4*
- CRJA 3610 - Police Organization and Management *Units: 4*
- CRJA 3700 - Ethics and Justice Administration *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Earth and Environmental Sciences

The Department Office is located on the 3rd Floor of the North Science (SC-N) building, Room 329.

Open 8:30 a.m. - 5:30 p.m., Monday - Thursday, closed Fridays.

Dept. Phone: (510) 885-3486

Faculty

Professors

Mitchell Craig, Ph.D. Georgia Institute of Technology

James L. J. Houpis, Ph.D. University of California, Berkeley

Jean E. Moran, (Chair), (Earth and Environmental Sciences), Ph.D. University of Rochester

Jeffery C. Seitz, (Earth and Environmental Sciences), Ph.D. Virginia Polytechnic Institute and State University

Associate Professor

Luther M. Strayer (Earth and Environmental Sciences), Ph.D. University of Minnesota

Assistant Professors

Michael Massey, Ph.D. Stanford University

Patricia Oikawa, Ph.D. University of Virginia

Environmental Science Program Coordinator: Michael Massey

Department Statement

The Department of Earth and Environmental Sciences at the California State University, East Bay is the home of the Geology and Environmental Science programs. Located on the tectonically active Hayward fault, we offer a variety of opportunities for students to obtain experience in lab- and field-based studies. We are a small department that prides itself on a feeling of community. Small class sizes guarantee close interaction between students and faculty, with personal attention at all levels.



Bachelor of Arts

Geology, B.A.

Department & Faculty Information

Geology (B.A./B.S.) 180 units

Program Description

Geology is the study of the earth and of life and the natural processes occurring on the earth through time. Students learn about the causes of earth processes such as earthquakes, volcanoes, the formation of mountains, the effect of erosion and deposition, and the formation of rocks and minerals and their uses. Coursework combined with observations on field trips provide Cal State East Bay students with an understanding of natural processes and the human impact on the environment.

The undergraduate degree programs consist of required courses plus electives designed to meet the needs of students with objectives including employment at the Bachelor's degree level, preparation for a secondary school teaching credential, and graduate study in Geology. The B.S. program in Geology is the primary professional degree program in Geology offered by the department, and serves as preparation for employment in the field, usually in a technical capacity. The B.A. program offers the student a greater degree of flexibility and may be more appropriate for those who do not necessarily plan to become professional geologists or pursue graduate study. (Note: Transfer from the B.A. to the B.S. program or vice versa can be accomplished.) Students wishing to do independent geological work professionally should plan on graduate study; see the Geology M.S. program in the graduate section of this catalog.

Student Learning Outcomes

Students graduating with a B.S. or B.A. in Geology from Cal State East Bay will be able to:

1. identify and classify geologic materials, including minerals, rocks, and fossils, and know their material and/or biological properties or characteristics.
2. collect, organize, and analyze qualitative and quantitative data from both field and laboratory investigations such as lithostratigraphic and biostratigraphic correlations, geologic maps, geophysical surveys, cross-sections, soil tests, and geochemical and groundwater quality analyses.
3. synthesize, interpret and critically analyze geologic datasets (2D and 3D) and reports using discipline-specific methods, techniques, and equipment.
4. critically analyze geological and environmental issues through the evaluation of scientific literature, and present their positions clearly and persuasively in written and oral form.
5. understand geologic time, evolution, Earth's place in the Universe, and global-scale processes such as plate tectonics, earth systems interactions, and climate change.

Career Opportunities

- Engineering Geologist
- Environmental Geologist
- Geochemist
- Geologist
- Geophysicist
- Hydrologist
- Mineralogist
- Paleontologist
- Park Ranger
- Petrologist
- Seismologist

- Soils Engineer
- Stratigrapher
- Oceanographer

Features

The undergraduate Geology programs emphasize field and laboratory training. Many opportunities for field and laboratory research exist throughout northern California and elsewhere.

The Earth and Environmental Sciences Club, a student-run organization, sponsors a variety of activities including guest speakers, field trips, employment workshops, and student-faculty gatherings. The club is an important part of department life, providing students with opportunities to make professional contacts, to explore graduate school and professional options, and to enjoy the company of others with similar interests. For more information, contact the faculty advisor or the current club president at (510) 885-3486.

Students completing the Geology major may apply four (4) units of mathematics and eight (8) units of chemistry (or physics) to the Natural Sciences and Mathematics requirement (Area B) in their General Education Requirements. (See the General Education Evaluator and Class Schedule for more information.)

Major Requirements (B.A.) 72-75 units, (B.S.) 105-111 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. Both the B.A. and B.S. degrees require a total of 180 units.

- The B.A. core major consists of 72-75 units;
- The B.S. core major consists of 105-111 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Prerequisites

Students must have completed the prerequisites listed in the course descriptions for any course they use to satisfy the following requirements. **Note:** Prerequisite units may not be included in total program units.

Common-Core Requirements (34 units)

Lower Division Core

The following lower division courses are part of the common core for both the B.A. and B.S. degrees. Two courses (9 units) required.

- GEOL 2101 - Physical Geology *Units: 5*
- GEOL 2102 - Earth and Life Through Time *Units: 4*

Upper Division Core

The following upper division courses are part of the common core for the B.A. and B.S. degrees. Six courses (25 units) required:

- GEOL 3601 - Mineralogy and Optical Crystallography *Units: 5*
- GEOL 3701 - Igneous and Metamorphic Petrology *Units: 5*
- GEOL 3801 - Sedimentology and Stratigraphy *Units: 5*
- GEOL 3810 - Structural Geology *Units: 5*
- GEOL 3910 - Geologic Field Methods *Units: 3*
- GEOL 4800 - Seminar *Units: 2*

Geology (B.A.)

The following courses are required for the Geology B.A. degree:

Required Courses (21-24 units)

- MATH 1300 - Trigonometry and Analytic Geometry *Units: 4*

And choose one (1) of two groups:

- CHEM 1101 - General Chemistry *Units: 5*
 - CHEM 1102 - General Chemistry *Units: 5*
 - CHEM 1103 - General Chemistry *Units: 5*
 - PHYS 1700 - Elementary Physics *Units: 4*
 - PHYS 1780 - Elementary Physics Laboratory *Units: 1*
- or
- CHEM 1100 - Introduction to College Chemistry *Units: 5*
 - PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
 - PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
 - PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Electives (17 units)

Choose any additional geology courses (17 units) at the 3000 and 4000 level. At least two courses must be at the 4000 level (no more than 4 units of GEOL 4900 may be applied).

Use the Course Descriptions link below for a list all Geology courses.

Except the following courses:

- GEOL 3040 - Weather and the Atmosphere *Units: 4*
- GEOL 3050 - Volcanoes and Plate Tectonics *Units: 4*
- GEOL 3100 - Geology of the Western National Parks *Units: 4*
- GEOL 3401 - The Oceans *Units: 4*
- GEOL 3898 - Cooperative Education *Units: 1-4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Bachelor of Science

Environmental Science, Environmental Systems and Resource Management Option, B.S.

Department & Faculty Information

Environmental Science (B.S.) 180 units

Program Description

Environmental scientists study and analyze the physical and biotic components of the environment; determine the impact of humans on ecosystems; develop strategies and plans to mitigate negative natural and human impacts; protect human and natural environments, and restore natural systems. The Environmental Science program provides interdisciplinary scientific preparation for students wishing to pursue knowledge and employment in the fields of environmental research, consulting, and oversight. Additional objectives of the program include provision of sufficient preparation for graduate studies in environmental sciences and allied fields and partial satisfaction of the Single Subject Matter Preparation Program for a teaching credential in science. The Bachelor of Science degree major in Environmental Science is an interdisciplinary program of study in the Department of Earth and Environmental Sciences with faculty participation from the Department of Biological Sciences (Undergraduate), Department of Chemistry and Biochemistry (Undergraduate), and Department of Anthropology, Geography and Environmental Studies (Undergraduate). In contrast to the B.A. degree major in Environmental Studies, the B.S. degree major in Environmental Science requires students to take a structured core of science courses from a variety of physical and life science disciplines, as well as a specialized upper division option in life science, physical science or environmental systems and resource management.

Student Learning Outcomes

Students graduating with a B.S. in Environmental Science from Cal State East Bay will be able to:

- apply knowledge of the principles of form, function and organization of organisms at the levels of molecules, cells, tissues, organs, organisms, populations, and communities;
- apply knowledge of the fundamental principles of chemistry, chemical structure, bonding, equilibrium, dynamics, and reactions, as well as classes of organic compounds and reactions;
- characterize the nature and distribution of earth materials, the processes by which the materials are formed and altered, and the nature and development of the landscape;

- synthesize knowledge of the major components of the physical environment, including landforms, climate, vegetation, and soils;
- critically analyze environmental issues through the evaluation of scientific literature, and present their positions clearly and persuasively in written and oral form.

Career Opportunities

Air Quality Controller

Atmospheric Scientist

Biological Consultant

Bioremediation Consultant

Chemical Consultant

Ecosystem and Habitat Restoration

Environmental Consultant

Environmental Field or Lab Technician

Environmental Health Scientist

Environmental Manager

Environmental Policy Developer

Environmental Protection and Regulation Manager

Geochemist

Hazardous Waste Manager

Industrial Hygienist

Pollution Control Technician

Risk Manager

Soils Scientist

Solid Waste Manager

Technical Writer

Urban Planner

Waste Water Treatment Manager

Water Manager

Wildlife Manager

Advanced Placement

Students who earn a grade of 3 or higher on the College Entrance Examination Board's Advanced Placement Test in Environmental Science will be given 4 units of credit equivalent to ENSC 2800.

Major Requirements (B.S.) 105-114 units

It is important to consult an advisor in your major program for clarification and interpretation of your major requirements. The B.S. degree requires a total of 180 units.

- The core major consists of 83-92 units;
- the Environmental Systems and Resource Management Option consists of 22 units;
- the Life Science Option consists of 22 units.
- the Physical Science Option consists of 22 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Prerequisites and Other Admission Requirements

Students entering the Environmental Science program as first year students are expected to have the same high school preparatory courses as other science majors. Admission to the degree program is open to all students admitted to Cal State East Bay. Transfer students may have lower division course deficiencies that must be completed after entry to the program. Continuation in the program is contingent on satisfactory progress in the university as described in the catalog. Note: Students must meet with an Environmental Science advisor to discuss prerequisites and updates to course offerings.

Lower Division Core (52-61 units)

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- ENSC 2800 - Environmental Problems of California *Units: 4*
- ENSC 2900 - Field Activity in Environmental Science *Units: 3*
- GEOL 2600 - Introduction to GIS *Units: 4 (or cross-listed GEOG 2600).*
- MATH 1304 - Calculus I *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Choose one of the following pair:

Note: students choosing the Life Science option must complete the BIOL 1402 and 1403 pair.

- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- or*
- ENSC 2400 - Environmental Biology *Units: 4*

- ENSC 2401 - Environmental Biology Laboratory *Units: 1*

Choose one of the following pair:

- GEOL 2101 - Physical Geology *Units: 5*
 - GEOL 2102 - Earth and Life Through Time *Units: 4*
 - or
 - GEOL 2210 - Environmental Geology *Units: 4*
 - GEOL 2211 - Environmental Geology Laboratory *Units: 1*
- *may substitute cross-listed ENSC for GEOL 2210 & 2211.*

Upper Division Core (23 units)

- BIOL 3110 - Principles of Ecology *Units: 4*
- ENSC 3500 - Environmental Hydrology *Units: 4 (or cross-listed GEOL 3500).*
- or
- GEOL 4320 - Hydrogeology *Units: 4*
- ENSC 4800 - Seminar in Environmental Science *Units: 3*
- ENVT 4100 - Environmental Impact Analysis *Units: 4*
- GEOG 3000 - Sustainable Resource Management *Units: 4*
- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*
- or
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Core Electives (8 units)

Complete one elective from the following:

- ECON 4306 - Environmental Economics *Units: 4*
- GEOG 4330 - Sustainable Development *Units: 4*
- HIST 3505 - California Environmental History *Units: 4*
- PHIL 3151 - Environmental Ethics *Units: 4*
- POSC 3460 - Environmental Law *Units: 4*
- POSC 4171 - Public Policy and the Environment *Units: 4*

Complete one elective from the following:

- ENSC 3999 - Issues in Environmental Science *Units: 4*
- ENSC 4140 - Hazardous Waste Management *Units: 4 (or cross-listed GEOL 4140)*
- ENSC 4200 - Global Change *Units: 4*

Option Requirements

A student must declare an option by the time he/she has completed 44 units of the Core courses. Students may elect to change their option with the notification of their advisor. Options are available in Life Science, Physical Science, and Environmental Systems and Resource Management, and are designed to provide in-depth study of a specific field. Each option requires 22 units within the discipline, in a combination of required courses and electives.

- Environmental Science, Environmental Systems and Resource Management Option, B.S.
- Environmental Science, Life Science Option, B.S.
- Environmental Science, Physical Science Option, B.S.

Environmental Systems and Resource Management Option (22 units)

A minimum of 22 units are required for this option.

Two or three courses from the following (8-15 units by advisement):

- ENVT 3400 - Environmental Resource Analysis *Units: 4*
- ENVT 4910 - Internship in Environmental Studies *Units: 2-4*
- GEOG 3030 - Fundamentals of Geographic Information Systems *Units: 4*
- GEOG 3410 - Air-Photo Interpretation *Units: 4*
- GEOG 3450 - Literature and Research Methods *Units: 5*
- GEOG 3605 - Computer Cartography *Units: 5*
- GEOG 4425 - Remote Sensing of Earth Environments *Units: 4*
- GEOG 4605 - Applications of GIS *Units: 5*

Two or three courses from the following (7-12 units by advisement):

- BIOL 4130 - Biogeography *Units: 4 (or cross-listed GEOG 4130)*.
- ENVT 4320 - Energy and Society *Units: 4 (or cross-listed GEOG 4320)*.
- ENVT 4800 - Senior Seminar in Environmental Studies *Units: 3*
- GEOL 3110 - Principles of Geomorphology *Units: 4*
- or*
- GEOG 3115 - Physical Landscape Analysis *Units: 4*
- GEOG 4350 - Water Resources and Management *Units: 4*

And one course from the following (4-5 units):

- ENVT 4300 - Environmental Field Studies *Units: 5*
- ENVT 3480 - Applied Field Studies *Units: 4 (or cross-listed GEOG 3480)*.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Environmental Science, Life Science Option, B.S.

Department & Faculty Information

Environmental Science (B.S.) 180 units

Program Description

Environmental scientists study and analyze the physical and biotic components of the environment; determine the impact of humans on ecosystems; develop strategies and plans to mitigate negative natural and human impacts; protect human and natural environments, and restore natural systems. The Environmental Science program provides interdisciplinary scientific preparation for students wishing to pursue knowledge and employment in the fields of environmental research, consulting, and oversight. Additional objectives of the program include provision of sufficient preparation for graduate studies in environmental sciences and allied fields and partial satisfaction of the Single Subject Matter Preparation Program for a teaching credential in science. The Bachelor of Science degree major in Environmental Science is an interdisciplinary program of study in the Department of Earth and Environmental Sciences with faculty participation from the Department of Biological Sciences (Undergraduate), Department of Chemistry and Biochemistry (Undergraduate), and Department of Anthropology, Geography and Environmental Studies (Undergraduate). In contrast to the B.A. degree major in Environmental Studies, the B.S. degree major in Environmental Science requires students to take a structured core of science courses from a variety of physical and life science disciplines, as well as a specialized upper division option in life science, physical science or environmental systems and resource management.

Student Learning Outcomes

Students graduating with a B.S. in Environmental Science from Cal State East Bay will be able to:

- apply knowledge of the principles of form, function and organization of organisms at the levels of molecules, cells, tissues, organs, organisms, populations, and communities;
- apply knowledge of the fundamental principles of chemistry, chemical structure, bonding, equilibrium, dynamics, and reactions, as well as classes of organic compounds and reactions;
- characterize the nature and distribution of earth materials, the processes by which the materials are formed and altered, and the nature and development of the landscape;
- synthesize knowledge of the major components of the physical environment, including landforms, climate, vegetation, and soils;
- critically analyze environmental issues through the evaluation of scientific literature, and present their positions clearly and persuasively in written and oral form.

Career Opportunities

Air Quality Controller

Atmospheric Scientist
Biological Consultant
Bioremediation Consultant
Chemical Consultant
Ecosystem and Habitat Restoration
Environmental Consultant
Environmental Field or Lab Technician
Environmental Health Scientist
Environmental Manager
Environmental Policy Developer
Environmental Protection and Regulation Manager
Geochemist
Hazardous Waste Manager
Industrial Hygienist
Pollution Control Technician
Risk Manager
Soils Scientist
Solid Waste Manager
Technical Writer
Urban Planner
Waste Water Treatment Manager
Water Manager
Wildlife Manager

Advanced Placement

Students who earn a grade of 3 or higher on the College Entrance Examination Board's Advanced Placement Test in Environmental Science will be given 4 units of credit equivalent to ENSC 2800.

Major Requirements (B.S.) 105-114 units

It is important to consult an advisor in your major program for clarification and interpretation of your major requirements. The B.S. degree requires a total of 180 units.

- The core major consists of 83-92 units;
- the Environmental Systems and Resource Management Option consists of 22 units;
- the Life Science Option consists of 22 units.
- the Physical Science Option consists of 22 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Prerequisites and Other Admission Requirements

Students entering the Environmental Science program as first year students are expected to have the same high school preparatory courses as other science majors. Admission to the degree program is open to all students admitted to Cal State East Bay. Transfer students may have lower division course deficiencies that must be completed after entry to the program. Continuation in the program is contingent on satisfactory progress in the university as described in the catalog. Note: Students must meet with an Environmental Science advisor to discuss prerequisites and updates to course offerings.

Lower Division Core (52-61 units)

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- ENSC 2800 - Environmental Problems of California *Units: 4*
- ENSC 2900 - Field Activity in Environmental Science *Units: 3*
- GEOL 2600 - Introduction to GIS *Units: 4 (or cross-listed GEOG 2600).*
- MATH 1304 - Calculus I *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Choose one of the following pair:

Note: students choosing the Life Science option must complete the BIOL 1402 and 1403 pair.

- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- or*
- ENSC 2400 - Environmental Biology *Units: 4*
- ENSC 2401 - Environmental Biology Laboratory *Units: 1*

Choose one of the following pair:

- GEOL 2101 - Physical Geology *Units: 5*
 - GEOL 2102 - Earth and Life Through Time *Units: 4*
- or**

- GEOL 2210 - Environmental Geology *Units: 4*
- GEOL 2211 - Environmental Geology Laboratory *Units: 1*
**may substitute cross-listed ENSC for GEOL 2210 & 2211.*

Upper Division Core (23 units)

- BIOL 3110 - Principles of Ecology *Units: 4*
- ENSC 3500 - Environmental Hydrology *Units: 4 (or cross-listed GEOL 3500).*
or
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- ENSC 4800 - Seminar in Environmental Science *Units: 3*
- ENVT 4100 - Environmental Impact Analysis *Units: 4*
- GEOG 3000 - Sustainable Resource Management *Units: 4*
- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*
or
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Core Electives (8 units)

Complete one elective from the following:

- ECON 4306 - Environmental Economics *Units: 4*
- GEOG 4330 - Sustainable Development *Units: 4*
- HIST 3505 - California Environmental History *Units: 4*
- PHIL 3151 - Environmental Ethics *Units: 4*
- POSC 3460 - Environmental Law *Units: 4*
- POSC 4171 - Public Policy and the Environment *Units: 4*

Complete one elective from the following:

- ENSC 3999 - Issues in Environmental Science *Units: 4*
- ENSC 4140 - Hazardous Waste Management *Units: 4 (or cross-listed GEOL 4140)*
- ENSC 4200 - Global Change *Units: 4*

Option Requirements

A student must declare an option by the time he/she has completed 44 units of the Core courses. Students may elect to change their option with the notification of their advisor. Options are available in Life Science, Physical Science, and Environmental Systems and Resource Management, and are designed to provide in-depth study of a specific field. Each option requires 22 units within the discipline, in a combination of required courses and electives.

- Environmental Science, Environmental Systems and Resource Management Option, B.S.
- Environmental Science, Life Science Option, B.S.
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Life Science Option (22 units)

One course required:

- BIOL 4351 - Biological Conservation *Units: 4*

And choose 18 units of electives from the following courses or other approved courses by advisement:

- BIOL 3215 - Marine Biology *Units: 4 or*
- MSC 4103 - Marine Ecology *Units: 6*
- BIOL 3216 - Freshwater Environments *Units: 4*
- BIOL 3898 - Cooperative Education *Units: 1-4*
- BIOL 4175 - Population Biology *Units: 4*
- BIOL 4340 - Environmental Microbiology *Units: 4*
- BIOL 4516 - Environmental Animal Physiology *Units: 4*
- BIOL 4517 - Environmental Toxicology *Units: 4*
- BIOL 4518 - Animal Behavior *Units: 4*
- BIOL 4583 - Vertebrate Biology *Units: 4*
- MSC 4104 - Quantitative Marine Science *Units: 6*
- MSC 4144 - Biological Oceanography *Units: 6*

Course Descriptions

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Environmental Science, Physical Science Option, B.S.

Department & Faculty Information

Environmental Science (B.S.) 180 units

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- synthesize knowledge of the major components of the physical environment, including landforms, climate, vegetation, and soils;
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Chemical Consultant

Ecosystem and Habitat Restoration

Environmental Consultant

Environmental Field or Lab Technician

Environmental Health Scientist
Environmental Manager
Environmental Policy Developer
Environmental Protection and Regulation Manager
Geochemist
Hazardous Waste Manager
Industrial Hygienist
Pollution Control Technician
Risk Manager
Soils Scientist
Solid Waste Manager
Technical Writer
Urban Planner
Waste Water Treatment Manager
Water Manager
Wildlife Manager

Advanced Placement

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- the Physical Science Option consists of 22 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Prerequisites and Other Admission Requirements

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students admitted to Cal State East Bay. Transfer students may have lower division course deficiencies that must be completed after entry to the program. Continuation in the program is contingent on satisfactory progress in the university as described in the catalog. Note: Students must meet with an Environmental Science advisor to discuss prerequisites and updates to course offerings.

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- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- ENSC 2800 - Environmental Problems of California *Units: 4*
- ENSC 2900 - Field Activity in Environmental Science *Units: 3*
- GEOL 2600 - Introduction to GIS *Units: 4 (or cross-listed GEOG 2600).*
- MATH 1304 - Calculus I *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
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- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Choose one of the following pair:

Note: students choosing the Life Science option must complete the BIOL 1402 and 1403 pair.

- BIOL 1402 - Plant Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- or*
- ENSC 2400 - Environmental Biology *Units: 4*
- ENSC 2401 - Environmental Biology Laboratory *Units: 1*

Choose one of the following pair:

- GEOL 2101 - Physical Geology *Units: 5*
 - GEOL 2102 - Earth and Life Through Time *Units: 4*
 - or*
 - GEOL 2210 - Environmental Geology *Units: 4*
 - GEOL 2211 - Environmental Geology Laboratory *Units: 1*
- *may substitute cross-listed ENSC for GEOL 2210 & 2211.*

Upper Division Core (23 units)

- BIOL 3110 - Principles of Ecology *Units: 4*
- ENSC 3500 - Environmental Hydrology *Units: 4 (or cross-listed GEOL 3500).*
- or*
- GEOL 4320 - Hydrogeology *Units: 4*

- ENSC 4800 - Seminar in Environmental Science *Units: 3*
- ENVT 4100 - Environmental Impact Analysis *Units: 4*
- GEOG 3000 - Sustainable Resource Management *Units: 4*
- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*
or
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Core Electives (8 units)

Complete one elective from the following:

- ECON 4306 - Environmental Economics *Units: 4*
- GEOG 4330 - Sustainable Development *Units: 4*
- HIST 3505 - California Environmental History *Units: 4*
- PHIL 3151 - Environmental Ethics *Units: 4*
- POSC 3460 - Environmental Law *Units: 4*
- POSC 4171 - Public Policy and the Environment *Units: 4*

Complete one elective from the following:

- ENSC 3999 - Issues in Environmental Science *Units: 4*
- ENSC 4140 - Hazardous Waste Management *Units: 4 (or cross-listed GEOL 4140)*
- ENSC 4200 - Global Change *Units: 4*

Option Requirements

A student must declare an option by the time he/she has completed 44 units of the Core courses. Students may elect to change their option with the notification of their advisor. Options are available in Life Science, Physical Science, and Environmental Systems and Resource Management, and are designed to provide in-depth study of a specific field. Each option requires 22 units within the discipline, in a combination of required courses and electives.

- Environmental Science, Environmental Systems and Resource Management Option, B.S.
- Environmental Science, Life Science Option, B.S.
- Environmental Science, Physical Science Option, B.S.

Physical Science Option (22 units)

Choose 22 elective units from the following courses and/or other approved courses by advisement.

- CHEM 2200 - Quantitative Analysis *Units: 5*
- CHEM 2301 - Survey of Organic Chemistry *Units: 4*
- CHEM 2302 - Survey of Organic Chemistry *Units: 4*
- CHEM 3898 - Cooperative Education *Units: 1-4*

- CHEM 4601 - Environmental Chemistry I *Units: 4*
- CHEM 4602 - Environmental Chemistry II *Units: 4*
- CHEM 4900 - Independent Study *Units: 1-4*
- GEOL 3110 - Principles of Geomorphology *Units: 4*
- GEOL 3601 - Mineralogy and Optical Crystallography *Units: 5*
- GEOL 3701 - Igneous and Metamorphic Petrology *Units: 5*
- GEOL 3801 - Sedimentology and Stratigraphy *Units: 5*
- GEOL 3810 - Structural Geology *Units: 5*
- GEOL 4010 - Applied Geophysics *Units: 5*
- GEOL 4130 - Survey of Geochemistry *Units: 4*
- GEOL 4320 - Hydrogeology *Units: 4*
- MATH 1305 - Calculus II *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Geology, B.S.

Department & Faculty Information

Geology (B.A./B.S.) 180 units

Program Description

Geology is the study of the earth and of life and the natural processes occurring on the earth through time. Students learn about the causes of earth processes such as earthquakes, volcanoes, the formation of mountains, the effect of erosion and deposition, and the formation of rocks and minerals and their uses. Coursework combined with observations on field trips provide Cal State East Bay students with an understanding of natural processes and the human impact on the environment.

The undergraduate degree programs consist of required courses plus electives designed to meet the needs of students with objectives including employment at the Bachelor's degree level, preparation for a secondary school teaching credential, and graduate study in Geology. The B.S. program in Geology is the primary professional degree program in Geology offered by the department, and serves as preparation for employment in the field, usually in a technical capacity. The B.A. program offers the student a greater degree of flexibility and may be more appropriate for those who do not necessarily plan to become

professional geologists or pursue graduate study. (Note: Transfer from the B.A. to the B.S. program or vice versa can be accomplished.) Students wishing to do independent geological work professionally should plan on graduate study; see the Geology M.S. program in the graduate section of this catalog.

Student Learning Outcomes

Students graduating with a B.S. or B.A. in Geology from Cal State East Bay will be able to:

1. identify and classify geologic materials, including minerals, rocks, and fossils, and know their material and/or biological properties or characteristics.
2. collect, organize, and analyze qualitative and quantitative data from both field and laboratory investigations such as lithostratigraphic and biostratigraphic correlations, geologic maps, geophysical surveys, cross-sections, soil tests, and geochemical and groundwater quality analyses.
3. synthesize, interpret and critically analyze geologic datasets (2D and 3D) and reports using discipline-specific methods, techniques, and equipment.
4. critically analyze geological and environmental issues through the evaluation of scientific literature, and present their positions clearly and persuasively in written and oral form.
5. understand geologic time, evolution, Earth's place in the Universe, and global-scale processes such as plate tectonics, earth systems interactions, and climate change.

Career Opportunities

- Engineering Geologist
- Environmental Geologist
- Geochemist
- Geologist
- Geophysicist
- Hydrologist
- Mineralogist
- Paleontologist
- Park Ranger
- Petrologist
- Seismologist
- Soils Engineer
- Stratigrapher
- Oceanographer

Features

The undergraduate Geology programs emphasize field and laboratory training. Many opportunities for field and laboratory research exist throughout northern California and elsewhere.

The Earth and Environmental Sciences Club, a student-run organization, sponsors a variety of activities including guest speakers, field trips, employment workshops, and student-faculty gatherings. The club is an important part of department life, providing students with opportunities to make professional contacts, to explore graduate school and professional options, and to enjoy the company of others with similar interests. For more information, contact the faculty advisor or the current club president at (510) 885-3486.

Students completing the Geology major may apply four (4) units of mathematics and eight (8) units of chemistry (or physics) to the Natural Sciences and Mathematics requirement (Area B) in their General Education Requirements. (See the General Education Evaluator and Class Schedule for more information.)

Major Requirements (B.A.) 72-75 units, (B.S.) 105-111 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. Both the B.A. and B.S. degrees require a total of 180 units.

- The B.A. core major consists of 72-75 units;
- The B.S. core major consists of 105-111 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Prerequisites

Students must have completed the prerequisites listed in the course descriptions for any course they use to satisfy the following requirements. **Note:** Prerequisite units may not be included in total program units.

Common-Core Requirements (34 units)

Lower Division Core

The following lower division courses are part of the common core for both the B.A. and B.S. degrees. Two courses (9 units) required.

- GEOL 2101 - Physical Geology *Units: 5*
- GEOL 2102 - Earth and Life Through Time *Units: 4*

Upper Division Core

The following upper division courses are part of the common core for the B.A. and B.S. degrees. Six courses (25 units) required:

- GEOL 3601 - Mineralogy and Optical Crystallography *Units: 5*
- GEOL 3701 - Igneous and Metamorphic Petrology *Units: 5*
- GEOL 3801 - Sedimentology and Stratigraphy *Units: 5*
- GEOL 3810 - Structural Geology *Units: 5*
- GEOL 3910 - Geologic Field Methods *Units: 3*
- GEOL 4800 - Seminar *Units: 2*

Geology (B.S.)

The following courses are required for the Geology B.S. degree:

Required Courses (43-46 units)

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- Two (2) GEOL 4000-level course on Field Geology, with consent of advisor *Units: 8*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*

And choose one (1) of two groups:*

- PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations *Units: 5*
- PHYS 1002 - General Physics: Thermodynamics and Optics *Units: 5*
- PHYS 1003 - General Physics: Electromagnetism *Units: 5*
- or*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

*** Note: Students needing a relatively rigorous preparation in mathematics and physics (e.g., for graduate study) are strongly urged to complete the calculus-based physics sequence (PHYS 1001, PHYS 1002, PHYS 1003); this requires completion of the additional calculus course MATH 2304. The additional 4 units earned in calculus may be applied to elective requirement.**

Electives (28-31 units)

Twenty-eight (28) to 31 units of electives (depending on physics sequence completed, from among the courses listed below) are required to complete the major. At least 10 units must be in 4000-level geology courses. Up to 12 of the elective units may be satisfied with appropriate courses in Biological Sciences, Chemistry, Mathematics and Computer Science, Physics, and/or Statistics approved in advance by a faculty advisor.

- GEOL 3110 - Principles of Geomorphology *Units: 4*
- GEOL 3400 - General Oceanography *Units: 4*
- GEOL 4010 - Applied Geophysics *Units: 5*
- GEOL 4130 - Survey of Geochemistry *Units: 4*
- GEOL 4320 - Hydrogeology *Units: 4*
- GEOL 4900 - Independent Study *Units: 1-4*
- GEOL 4910 - Senior Thesis *Units: 2* (not more than 4 units for GEOL 4900 and GEOL 4910 combined)
- Additional units required must be approved by a faculty advisor. Students interested in a specific subdiscipline (e.g., applied geology, oceanography, geochemistry) are urged to consult the appropriate departmental faculty advisor to ensure an appropriate choice of electives.

Note:

Course substitutions made after arrival at Cal State East Bay must have prior written approval of the faculty advisor.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Science

Geology, M.S.

Department & Faculty Information

Geology (M.S.) 45 units

Program Description

The Department of Earth and Environmental Sciences offers graduate study leading to the Master of Science degree in Geology. This program is designed to prepare students for:

1. employment as geologists in government (city, county, regional, state, and federal) and private enterprise (engineering and geotechnical firms, mining and oil companies, etc.);
2. research at the doctoral level in various aspects of geology, geochemistry, and geophysics depending on their undergraduate background; and
3. the Community College Instructor Credential (the master's degree requirement). The department also provides continuing education for professional geologists, engineers, planners, etc.

To serve graduate students who are employed during the day, graduate courses in the Department of Earth and Environmental Sciences are offered in the evenings. In addition to regular catalog courses, graduate seminars address diverse subjects; recent seminars have focused on mineral deposits, earthquakes hazards, sediment transport, and modern depositional environments. Opportunities exist for access to additional facilities and part-time employment at Lawrence Berkeley and Lawrence Livermore National Laboratories, and the U.S. Geological Survey in Menlo Park. Students registered at Cal State East Bay may enrich their graduate programs by enrolling in courses through cross-registration at the University of California, Berkeley.

Candidates for the M.S. degree must be prepared to engage in significant individual research. Recent student research in this department has included such topics as hydrogeology, near surface geophysics, areal geology and slope stability, geochemistry, structural geology, engineering geology, marine and geothermal geochemistry, neotectonics and marine sedimentology. Prospective candidates should determine whether their research interests coincide with those of the faculty members before applying to the program. Interested persons are invited to contact the department directly for more details on the

program. Qualifications and advancement in the graduate program are decided by the department Graduate Coordinator with the concurrence of the department faculty.

Student Learning Outcomes

Students graduating with an M.S. in Geology from Cal State East Bay will be able to:

1. conduct independent geologic research, including preparation of a project or thesis; the result should be of high enough quality to be presented at a professional meeting;
2. write a technical report based on research carried out on behalf of an employer;
3. evaluate reports written by other earth scientists, and to use written materials and data sets available from the library and Internet;
4. communicate complex geological concepts.

Environmental Geology Option

Students who complete a combination of appropriate courses in the Department of Earth and Environmental Sciences and other departments and who complete an environmentally related thesis or project, will be allowed to receive the M.S. degree with the Environmental Geology Option. A list of appropriate courses for the option must be developed in consultation with the department faculty.

Admission

With the qualifications listed under "Conditionally Classified Graduate" status below, the M.S. degree program is open to any student in possession of a baccalaureate degree in Geology with coursework equivalent at least to the core requirements for the B.S. degree in Geology at Cal State East Bay. Students who do not meet those requirements will be considered on an individual basis and accepted only after approval by a majority of regular faculty members.

Applicants must have a GPA of at least 2.5 in all undergraduate work and at least 2.75 in all geology courses. Any undergraduate geology course with a "D" grade will have to be repeated. Students transferring from another graduate program must have a GPA of at least 3.0 in all graduate geology courses. (No more than 13 units may be transferred.)

Applications must be accompanied by two letters of recommendation from faculty members or work supervisors.

Conditionally Classified Graduate Status

Students who are otherwise qualified but have course deficiencies and/or have not satisfied the University Writing Skills requirement, will be accepted as "Conditionally Classified Graduate" students. Course deficiencies may be removed by enrolling on a "CR/NC" basis. (Students who wish to develop their writing skills should enroll in ENGL 3000 or ENGL 3001.)

Classified Graduate Status

Students who fulfill all the requirements for admission to the program will be accorded "Classified Graduate" status once they have satisfied the University Writing Skills requirement. All deficiencies have

to be removed, and the University Writing Skills requirement satisfied no later than the completion of 20 units of coursework applicable to the degree or the student will be disqualified.

Selection of Thesis/Project or Academic Advisor

Once "Classified Graduate" status has been attained, each student will be assigned a thesis or project advisor by the department chair after consultation with the student and the graduate coordinator. The faculty member chosen also will act as academic advisor.

Advancement to Candidacy

In order to be Advanced to Candidacy, the student must have:

1. been accorded "Classified Graduate" status
2. been assigned a thesis or graduate project advisor; and
3. submitted to the department an acceptable Thesis or graduate Project Prospectus describing the thesis research or graduate project work to be attempted (guidelines for preparation of the Prospectus may be obtained from the department office). The research topic must be approved in advance by the advisor.

Faculty: Research Interests

- Mitchell S. Craig, Ph.D., 1990, Georgia Institute of Technology; near surface geophysics, seismology, sedimentology
- Jean Moran, Ph.D., 1994, University of Rochester; hydrogeology, aqueous geochemistry, isotope hydrology
- Jeffery C. Seitz, Ph.D., 1994, Virginia Polytechnic Institute and State University; geochemistry, petrology, astrobiology, science education
- Luther M. Strayer, Ph.D., 1998, University of Minnesota, Minneapolis; structural geology, tectonics, Bay Area earthquake geology, field geology
- Michael Massey, Ph.S., 2013, Stanford University; environmental chemistry of nutrients and contaminants in soil, x-ray spectroscopy

Degree Requirements

1. Advancement to Candidacy

2. Satisfaction of university requirements described in the Graduate Degree Information chapter in this catalog. These include the 32-unit residence requirement, the five-year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 GPA, and the University Writing Skills requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

3. Completion of the study plan outlined below (45 units)

- Two Graduate Seminars GEOL 6811 - Graduate Seminar *Units: 2*
- GEOL 6910 - University Thesis *Units: 1-9* or GEOL 6899 - Project *Units: 1-2*
- Geology Graduate Courses *Units: 20-27*

- Upper division/graduate electives in Geology and related fields *Units: 12*
4. Completion and defense of the University Thesis or completion (and defense, if required) of the graduate Project.

Curricular Requirements (See Errata Chapter for Corrections to this Content)

Prerequisites

Students must have completed the prerequisites listed in the course descriptions for any course they use to satisfy the following requirements. **Note:** Prerequisite units may not be included in total program units and therefore should be considered when planning your degree roadmap. Consult with your academic advisor or department for further information concerning prerequisites and degree roadmaps.

Graduate Seminar Requirement

All students are required to take twice for a total of 4 units:

- **GEOL 6811 - Graduate Seminar** *Units: 2 (x2 for a total of 4 units)*

Geology Graduate Courses

Any combination of graduate geology courses and additional seminars must be taken for a total of 20-27 units.

Upper Division Coursework Requirement

Twelve units must be completed in courses selected from a list of approved upper division and graduate courses in Geology and related disciplines which is available from the department office; at least 4 units must be in Geology courses.

University Thesis or Graduate Project

Students are required to complete either:

- **GEOL 6899 - Project** *Units: 1-2*
- or*
- **GEOL 6910 - University Thesis** *Units: 1-9 (must take for 9* units) *students may not register for more than 50% of the total units prior to starting the writing of their thesis.*

University Thesis students must submit to the Thesis Committee, and defend orally, an acceptable University Thesis. The University Thesis is a formal paper reporting the results of original research. This research normally involves field and/or laboratory investigation. *The thesis is submitted to the university in the electronic format specified in the "University Thesis Writing Guide". One bound copy is required to be filed in the Department Office, and students may order a bound personal copy. The Thesis Committee comprises the faculty thesis advisor plus either (1) two other faculty members from the Department of Earth and Environmental Sciences or other appropriate Cal State East Bay faculty, or (2) one other faculty member from the department and one or more qualified individuals from outside the university. *Note: see Errata chapter in this catalog for minor changes.

Graduate Project students must submit to the department an abstract and acceptable graduate project (manuscript, map, computer model, education module). An oral defense may be required.

Note Unit Limitations:

- Students cannot receive credit toward the master's degree for courses taken to remove deficiencies or for GEOL 3898.
- **GEOL 6420 - Internship** *Units: 1-4 (cannot receive credit in excess of 4 units)*
- **GEOL 6899 - Project** *Units: 1-2 (cannot receive credit in excess of 2 units)*
- **GEOL 6900 - Independent Study** *Units: 1-4 (cannot receive credit in excess of 4 units)*
- **GEOL 6910 - University Thesis** *Units: 1-9 (cannot receive credit in excess of 9 units)*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Geology Minor

Department & Faculty Information

Minor Requirements (28-34 units)

The minor consists of 28-34 units

Prerequisites

Students must have completed the prerequisites listed in the course descriptions for any course they use to satisfy the following requirements. **Note:** Prerequisite units may not be included in total program units.

Core Courses

- **GEOL 2101 - Physical Geology** *Units: 5*
- **GEOL 2102 - Earth and Life Through Time** *Units: 4*

Elective Courses

One lower division elective from the following (4-5 units):

- GEOL 1000 - Earth Systems Science *Units: 5*
- GEOL 1001 - Introduction to the Earth Sciences *Units: 4*
- GEOL 1201 - Introduction to Oceanography *Units: 4*
- GEOL 2000 - Introduction to the Geology of California *Units: 4*
- GEOL 2300 - Natural Disasters *Units: 4*

Four upper division electives

Chosen from the following with assistance of minor advisor (15-20 units):

- GEOL 3040 - Weather and the Atmosphere *Units: 4*
- GEOL 3050 - Volcanoes and Plate Tectonics *Units: 4*
- GEOL 3100 - Geology of the Western National Parks *Units: 4*
- GEOL 3110 - Principles of Geomorphology *Units: 4*
- GEOL 3400 - General Oceanography *Units: 4*
- GEOL 3401 - The Oceans *Units: 4*
- GEOL 3601 - Mineralogy and Optical Crystallography *Units: 5*
- GEOL 3701 - Igneous and Metamorphic Petrology *Units: 5*
- GEOL 3801 - Sedimentology and Stratigraphy *Units: 5*
- GEOL 3810 - Structural Geology *Units: 5*
- GEOL 3910 - Geologic Field Methods *Units: 3*
- GEOL 4320 - Hydrogeology *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Economics

The Department Office is located on the 4th floor of the VBT building, Room 442.

Hours Open: 8:00 am to 5:00 pm Monday through Friday.

Dept. Phone: 510-885-3265

Faculty

Professors Emeriti

James C. W. Ahiakpor, Ph.D. University of Toronto (Canada)

Gregory B. Christainsen, Ph.D. University of Wisconsin, Madison

Lynn C. Paringer, Ph.D. University of Wisconsin, Madison

Professor

Jed DeVaro (Chair), Ph.D. Stanford University

Associate Professors

Ryan Lampe, Ph.D. Stanford University

Christian Roessler, Ph.D. The University of Melbourne (Australia)

Assistant Professors

Joseph Kuehn, Ph.D. University of California, Los Angeles

Filippo Rebessi, Ph.D. University of Minnesota

Jung You, Ph.D. Rice University

M.A. Program Director: Christian Roessler

Mission Statement:

We are proud of our diverse body of students and our vibrant undergraduate and graduate programs in Economics and Business. Our faculty hold PhDs from leading universities and have diverse backgrounds, teaching and research interests. In addition to receiving numerous grants and publishing in major academic journals in Economics, members of our faculty receive consistently high teaching evaluations, and some have been recognized with teaching awards. They also have made intellectual contributions via publications in books and textbooks of general interest, conferences and media presentations, and studies regarding local community issues, as well as refereeing for a variety of academic journals and in some cases serving as editors or on editorial boards. Department faculty currently head the Smith Center for Private Enterprise Studies and the Center for Economic Education. Our scenic campus is geographically located in one of the most dynamic technological, scientific and cultural hubs in the world.

Centers and Institutes

Graduate Studies

Bachelor of Arts

Economics, General Economics Option, B.A.

Department & Faculty Information

Economics (B.A.) 180 units

Program Description

The Economics major prepares the student for a broad variety of careers including those in law, journalism, banking and insurance, government, teaching, and research. The study of economics has become essential in today's dynamic and complex business environment.

An Economics education provides the student with a logical way of approaching various problems and issues and provides quantitative skills valued highly by employers. The student learns techniques for analyzing contemporary economic problems and develops the ability to exercise sound judgment in evaluating public policy issues. Many of these skills are useful in daily decision-making irrespective of career choice. The broad background developed with the Economics major encourages the student to become an interested, understanding observer of the events of today's and tomorrow's world.

Undergraduate Student Success & Service Center

CBE's Undergraduate Student Success & Service Center (USSSC) provides services that support and promote student success. For more information and advising contact the USSSC in VBT 129, call 510.885.3323, or email cbe_ssc@csueastbay.edu.

Student Learning Outcomes

Students graduating with a B.A. in Economics from Cal State East Bay will be able to:

- Recognize and recall microeconomic principles.
- Recognize and recall macroeconomic principles.

- Demonstrate effective oral communication skills in presenting coherent, logical economic arguments grounded in economic theory.
- Demonstrate effective written communication skills in presenting coherent, logical economic arguments grounded in economic theory and methods in writing.
- Employ mathematics and statistics to solve economic problems.

Career Opportunities

- Accountant
- Analyst
- Business Executive
- Economist
- Employment Researcher/Planner
- Financial Consultant
- Foreign Service Officer
- Financial Analyst
- Management Analyst
- Market Research Analyst
- Policy Analyst
- Professor/Teacher
- Public Policy Analyst
- Securities Analyst
- Statistical Analyst
- Statistician
- Stockbroker

Preparation

For Advanced Placement course equivalencies, see Registration chapter.

CBE Sample Programs

In order to ensure that prerequisite courses are taken in the proper sequence, contact the USSSC.

Major Requirements (B.A.) 65 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 33 units;
 - the General Economics Option consists of 32 units;
 - the Social Science Economics Option consists of 32 units.
 - GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
 - *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*
- Expiration of Courses:** Major/option requirement courses will expire ten years after completion of the quarter in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of courses: Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Because all upper division Economics courses contain a writing component, it is strongly recommended that students complete their University Writing Skills Requirement as soon as possible after completing 90 quarter units. Students are encouraged to improve these skills by taking MKTG 3495 (Business Communication). See the Business Administration chapter in the undergraduate section of this catalog for a course description.

B.A. in Economics Core Requirements 33 units

Lower Division Core:

Four courses (17 units) required:

- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*

Choose one from:

- MATH 1304 - Calculus I *Units: 4*
- MATH 1810 - Mathematics for Business and Social Sciences *Units: 4*

And choose one from:

- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 2010 - Elements of Statistics for Business and Economics *Units: 5*

Note:

Majors are strongly encouraged to take MATH 1304 rather than MATH 1810. Students considering graduate school in economics require considerably more mathematics than MATH 1304 and should consult with the Economics Department Chair as early as possible regarding which courses to take.

Upper Division Core:

Four courses (16 units) required. Complete the following courses as soon as possible after the lower division core has been satisfied.

- ECON 3000 - Micro-Economic Theory *Units: 4*
Note: Students completing a double major in Economics and Business Administration may substitute ECON 3551 Managerial Economics and Business Strategy.
- ECON 3001 - Micro-Economic Theory II *Units: 4*
- ECON 3005 - Macro-Economic Theory *Units: 4*
- ECON 3310 - Money, Banking, and Financial Intermediaries *Units: 4*

Option Requirements

An additional 32 units in a specialized concentration are required. Choose one of these options to complete the major:

- Economics, General Economics Option, B.A.
- Economics, Social Science Economics Option, B.A.

General Economics Option (32 units)

The General Economics Option is the more rigorous of the two options and is strongly recommended, because it requires econometrics (which is one of the most useful courses in the major for equipping students with the data analysis skills valued by employers).

Required Option Course:

One course (4 units) required:

- ECON 4400 - Introduction to Econometrics *Units: 4*

Option Elective Courses:

Select seven upper division economics courses (28 units), excluding: ECON 3551, ECON 3898, ECON 4900.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Economics, Social Science Economics Option, B.A.

Department & Faculty Information

Economics (B.A.) 180 units

Program Description

The Economics major prepares the student for a broad variety of careers including those in law, journalism, banking and insurance, government, teaching, and research. The study of economics has become essential in today's dynamic and complex business environment.

An Economics education provides the student with a logical way of approaching various problems and issues and provides quantitative skills valued highly by employers. The student learns techniques for analyzing contemporary economic problems and develops the ability to exercise sound judgment in evaluating public policy issues. Many of these skills are useful in daily decision-making irrespective of career choice. The broad background developed with the Economics major encourages the student to become an interested, understanding observer of the events of today's and tomorrow's world.

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- Recognize and recall macroeconomic principles.
- Demonstrate effective oral communication skills in presenting coherent, logical economic arguments grounded in economic theory.
- Demonstrate effective written communication skills in presenting coherent, logical economic arguments grounded in economic theory and methods in writing.
- Employ mathematics and statistics to solve economic problems.

Career Opportunities

- Accountant
- Analyst
- Business Executive
- Economist
- Employment Researcher/Planner
- Financial Consultant
- Foreign Service Officer
- Financial Analyst
- Management Analyst
- Market Research Analyst
- Policy Analyst
- Professor/Teacher
- Public Policy Analyst
- Securities Analyst
- Statistical Analyst
- Statistician
- Stockbroker

Preparation

For Advanced Placement course equivalencies, see Registration chapter.

CBE Sample Programs

In order to ensure that prerequisite courses are taken in the proper sequence, contact the USSSC.

Major Requirements (B.A.) 65 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 33 units;
 - the General Economics Option consists of 32 units;
 - the Social Science Economics Option consists of 32 units.
 - GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
 - *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*
- Expiration of Courses:** Major/option requirement courses will expire ten years after completion of the quarter in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of courses: Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Because all upper division Economics courses contain a writing component, it is strongly recommended that students complete their University Writing Skills Requirement as soon as possible after completing 90 quarter units. Students are encouraged to improve these skills by taking MKTG 3495 (Business Communication). See the Business Administration chapter in the undergraduate section of this catalog for a course description.

B.A. in Economics Core Requirements 33 units

Lower Division Core:

Four courses (17 units) required:

- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*

Choose one from:

- MATH 1304 - Calculus I *Units: 4*
- MATH 1810 - Mathematics for Business and Social Sciences *Units: 4*

And choose one from:

- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 2010 - Elements of Statistics for Business and Economics *Units: 5*

Note:

Majors are strongly encouraged to take MATH 1304 rather than MATH 1810. Students considering graduate school in economics require considerably more mathematics than MATH 1304 and should consult with the Economics Department Chair as early as possible regarding which courses to take.

Upper Division Core:

Four courses (16 units) required. Complete the following courses as soon as possible after the lower division core has been satisfied.

- **ECON 3000 - Micro-Economic Theory** *Units: 4*
Note: Students completing a double major in Economics and Business Administration may substitute ECON 3551 Managerial Economics and Business Strategy.
- **ECON 3001 - Micro-Economic Theory II** *Units: 4*
- **ECON 3005 - Macro-Economic Theory** *Units: 4*
- **ECON 3310 - Money, Banking, and Financial Intermediaries** *Units: 4*

Option Requirements

An additional 32 units in a specialized concentration are required. Choose one of these options to complete the major:

- Economics, General Economics Option, B.A.
- Economics, Social Science Economics Option, B.A.

Social Science Economics Option (32 units)

The Social Science Economics option provides an avenue for students interested in the social science aspects of economics and provides a rigorous and well-rounded economics program that emphasizes its social science underpinnings.

Option Elective Courses in Economics:

Choice of five upper division economics courses (20 units), excluding: ECON 3551, ECON 3898, ECON 4900.

Option Elective Courses in Social Science:

Choice of three courses (12 units) from the following list of courses:

- **HIST 3017 - The Twentieth Century** *Units: 4*
- **HIST 3224 - The Cold War** *Units: 4*
- **HIST 3305 - Modern South Asia** *Units: 4*
- **HIST 3345 - The Modern Middle East** *Units: 4*
- **HIST 3416 - The Great Depression and World War II** *Units: 4*
- **HIST 3417 - Cold War America** *Units: 4*
- **HIST 3550 - The History of U.S. Foreign Relations** *Units: 4*
- **HIST 3605 - Modern Latin America** *Units: 4*

- POSC 3120 - State and Local Politics and Government *Units: 4*
- POSC 3130 - Urban Politics *Units: 4*
- POSC 3300 - Voting and Public Opinion *Units: 4*
- POSC 3419 - Labor Policy and Law *Units: 4*
- POSC 3460 - Environmental Law *Units: 4*
- POSC 3470 - International Law *Units: 4*
- POSC 3500 - World Problems and Global Response *Units: 4*
- POSC 3505 - American Foreign Policy *Units: 4*
- POSC 3520 - International Relations *Units: 4*
- POSC 3521 - Politics of the Global Economy *Units: 4*
- POSC 3704 - Marxism in Theory and Practice *Units: 4*
- POSC 3800 - Public Policy Analysis *Units: 4*
- SOC 3200 - Social Demography *Units: 4*
- SOC 3000 - Introduction to Sociological Research *Units: 4*
- SOC 3420 - Social Inequality *Units: 4*
- SOC 3431 - Global Society *Units: 4*
- SOC 3520 - Sociology of Race and Ethnic Relations *Units: 4*
- SOC 3880 - Work and Professions *Units: 4*
- SOC 3890 - Sociology of Organizations *Units: 4*
- SOC 4450 - Urban Sociology *Units: 4*
- SOC 4720 - Medical Sociology *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Bachelor of Science

Business Administration, Business Economics Option, B.S.

Department & Faculty Information

Business Administration (B.S.) 180 units

Program Description

The College of Business and Economics is committed to providing a broad and flexible professional education. The program offers students the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers. Recognizing the importance of ethics in the business community, business ethics is an important component in three of our required core classes.

The Business Administration major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization (option) corresponding to their desired career path. Each option allows students flexibility to customize their program by choosing option elective courses. The program is designed to encourage students to actively participate in shaping their program to fit their individual needs.

The undergraduate and the graduate programs in Business Administration are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Undergraduate Student Success & Service Center

CBE's Undergraduate Student Success & Service Center (USSSC) provides services that support and promote student success. For more information and advising, contact the USSSC in VBT 129, call (510) 885-3323 or email cbe_ssc@csueastbay.edu

Student Learning Outcomes

Students graduating with a B.S. in Business Administration from Cal State East Bay will be able to:

1. Recognize and recall foundation knowledge relevant to business management.
2. Integrate and think critically across functional areas to solve business problems.
3. Understand and apply quantitative methods and tools in evaluating business problems.
4. Apply technology to analyze business problems.
5. Apply effective oral communication skills.
6. Apply effective written communication skills.
7. Apply effective team working skills.
8. Understand ethical issues and derive solutions for ethical problems.

CBE Sample Programs

In order to ensure that prerequisite courses are taken in the proper sequence, contact the CBE Student Service Center at www.csueastbay.edu/cbe/students/usssc. This site provides information, advising, online forms, sample programs and curriculum planning flow charts for each option in the business administration major.

Major Requirements (B.S.) 97-105 units

Expiration of Courses

Upper division major/option requirement courses will expire ten years after completion of the quarter in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

The B.S. degree requires a total of 180 units. The Business Administration major consists of 97-105 units. The Business Administration major requires three sets of courses:

1. (I) lower division core courses with a grade of "C" or better for each course,
2. (II) upper division core courses, and
3. (III) courses to fulfill option requirements.
 - The core major consists of 73-77 units;
 - the Accounting Option consists of 28 units;
 - the Business Economics Option consists of 24 units;
 - the Entrepreneurship Option consists of 24 units;
 - the Finance Option consists of 24 units;
 - the General Management Option consists of 24 units;
 - the Human Resources Management Option consists of 24 units;
 - the Information Technology Management Option consists of 24 units;
 - the Marketing Management Option consists of 24 units;
 - the Operations and Supply Chain Management Option consists of 24 units.
 - GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
 - *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Prerequisite Courses

Students must have completed the prerequisites listed in the **course descriptions** for any course they use to satisfy the following requirements. Two key MATH prerequisites are listed here, their units are not included in the Major's total units. Check all **course descriptions** to be sure all prerequisites are met.

- MATH 1130 - College Algebra *Units: 4*
- MATH 1300 - Trigonometry and Analytic Geometry *Units: 4*
- **Digital Proficiency** can be fulfilled by completing ITM 1270 (offered below) **or** in one of the following ways: 1) Pass the Digital Proficiency test administered quarterly by the Department of Management, College of Business and Economics. Contact CBE Undergraduate Student Success & Service Center for details regarding the test or 2) Receive a total scaled score of 50 or higher on the "Information Systems and Computer Applications" test administered by College Board's College-Level Examination Program (CLEP). Note that the total scaled scores fall between 20 and 80. Your total scaled score must be at least 50, which does not mean 50%. Browse http://www.collegeboard.com/student/testing/clep/ex_isca.html for all details regarding the "Information Systems" test.

Lower Division Core (29-33 units)

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- ACCT 2253 - Introduction to Managerial Accounting *Units: 4*
- ACCT 2701 - Legal Environment of Business *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*

- ITM 1270 - Fundamentals of Information Systems and Applications *Units: 4*
- MATH 1810 - Mathematics for Business and Social Sciences *Units: 4* *Note: students who plan to pursue one of the more quantitative options or a graduate program are encouraged to enroll in MATH 1304 Calculus I, in place of MATH 1810.*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
or STAT 2010 Elements of Statistics for Business and Economics

Upper Division Core (44 units)

All lower division core requirements must be completed prior to enrollment in upper division courses. *Note: Neither ECON 3107 nor MGMT 4670 can be used as an elective for any Business Administration options. Students who choose the Accounting option are strongly encouraged to take ACCT 4911 Accounting Ethics that counts towards the requirement of 4 quarter units of accounting ethics on the Ethics Study for California CPA (Certified Public Accountant) licensure.*

- ECON 3107 - Global Economic Analysis *Units: 4*
or MGMT 4670 Multinational Business
- ECON 3551 - Managerial Economics and Business Strategy *Units: 4*
- FIN 3300 - Financial Management *Units: 4*
- ITM 3060 - Information Technology Management *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*
- MGMT 3560 - Business and Professional Ethics *Units: 4*
or cross-listed: PHIL 3560
- MGMT 3614 - Organizational Behavior *Units: 4*
- MGMT 3620 - Operations Management *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*
or ACCT 4911 Accounting Ethics
- MGMT 4650 - Seminar in Strategic Business Management *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*

Option Requirements

A Business Administration B.S degree requires that students choose one of the following options. *A student cannot have both an option and a minor in the same area.*

- Business Administration, Accounting Option, B.S.
- Business Administration, Business Economics Option, B.S.
- Business Administration, Entrepreneurship Option, B.S.
- Business Administration, Finance Option, B.S.
- Business Administration, General Management Option, B.S.
- Business Administration, Human Resources Management Option, B.S.
- Business Administration, Information Technology Management (ITM) Option, B.S.
- Business Administration, Marketing Management Option, B.S.
- Business Administration, Operations and Supply Chain Management (OSCM) Option, B.S.

Business Economics Option (24 units)

The Business Economics option concentrates on the economic aspects of business decision-making. The coursework emphasizes forecasting product demand, setting product prices, estimating production costs, calculating firm profitability, evaluating investment alternatives, and assessing the effects of government regulations and industry competition on firm performance and strategy. Students selecting this option will be prepared for careers in banking, finance, economic forecasting, and business economics. The option also provides an excellent background for graduate training in economics and business. Students in this option are encouraged to take ECON 3107 instead of MGMT 4670, and STAT 2010 instead of STAT 1000 as part of their required core coursework.

Required Option Courses:

Three courses (12 units) required:

Note: only one (ECON 3005 or 3006) can be counted towards the option.

- ECON 3005 - Macro-Economic Theory *Units: 4*
or
- ECON 3006 - Macro-Economics for Business *Units: 4*
- ECON 3310 - Money, Banking, and Financial Intermediaries *Units: 4*
- ECON 4400 - Introduction to Econometrics *Units: 4*

Option Elective Courses:

Select three upper division economics courses (12 units) beyond the required courses listed, excluding ECON 3000, ECON 3001, and ECON 3107.

Note:

A student cannot receive credit for both an Economics major or minor and the Business Economics option in the Business Administration major.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Arts

Economics, M.A.

Department & Faculty Information

Program Description

The Economics MA prepares the student for a broad variety of careers including those in law, journalism, banking and insurance, government, teaching, and research. The study of economics has become essential in today's dynamic and complex business environment.

An Economics education provides the student with a logical way of approaching various problems and issues and provides quantitative skills valued highly by employers. The student learns techniques for analyzing contemporary economic problems and develops the ability to exercise sound judgment in evaluating public policy issues. Many of these skills are useful in daily decision-making irrespective of career choice. The broad background developed with the Economics major encourages the student to become an interested, understanding observer of the events of today's and tomorrow's world.

Economics (M.A.) 45 units

Admission Requirements

To be considered for admission, students must hold a baccalaureate degree from an accredited college or university and have a grade point average of 2.75 or better over the last 90 quarter units or 60 semester units of their undergraduate program. A student who does not meet the grade point requirements may be admitted at the discretion of the department pending receipt of other evidence of the student's academic achievement.

International students must show English proficiency by posting an official TOEFL score of 580 or above (237 on the Computer-Based TOEFL), or by posting an official transcript showing graduation with a bachelor's degree from a U.S. college or university, or an international college or university where English is the principal language of instruction, or by an official letter from the college or university certifying that English was the language of instruction.

Students enrolling in the program are expected to have completed the equivalent of MATH 1810 and ECON 4000 (mathematical economics) or a two-course sequence in calculus; STAT 1000 or STAT 2010 or equivalent; and at least one course in intermediate micro-economics and one course in intermediate macro-economics. These course prerequisites must have been completed with a grade of 'C' or better and within 5 years of starting the program. Rare exceptions can be granted with permission from both the Department Chair and Graduate Advisor. Students who have not completed the Economics prerequisites may enroll in the undergraduate courses to fulfill the prerequisites.

Advancement to Candidacy

There are three levels of advancement for students within the M.A. program: "Conditionally Classified Graduate" standing, "Classified Graduate" standing, and "Advancement to Candidacy." Note: If a student is in post-baccalaureate status but has not been accepted into a graduate degree program s(he) is an "Unclassified Post-baccalaureate" student. Admission to the university as an "Unclassified Post-baccalaureate" student in no way implies acceptance to a graduate degree program.

To be Advanced to Candidacy in the M.A. program a student must:

1. be a "Classified Graduate" student in good standing;

2. have filed an approved program of study with the department;
3. have completed at least 12 quarter units in Economics considered applicable by the department toward the M.A. degree requirements, including at least 8 quarter units of graduate level (6100-6999 series) work in residence at Cal State East Bay; and
4. have been recommended for Advancement to Candidacy by the department.

Student Learning Outcomes

Students graduating with an M.A. in Economics from Cal State East Bay will be able to:

1. Show an advanced understanding of economic theory.
2. Show an advanced understanding of econometrics.
3. Apply economic theory and methods to strategic and policy issues.
4. Examine and Analyze economic data using appropriate specialized software.

There are three levels of advancement for students within the M.A. program: "Conditionally Classified Graduate" standing, "Classified Graduate" standing, and "Advancement to Candidacy." Note: If a student is in post-baccalaureate status but has not been accepted into a graduate degree program s(he) is an "Unclassified Post-baccalaureate" student. Admission to the university as an "Unclassified Post-baccalaureate" student in no way implies acceptance to a graduate degree program.

Requirements for Graduation

To be eligible for the M.A. degree in economics a student must have been Advanced to Candidacy

Have completed 45 quarter units of graduate work as indicated and of which:

1. all must have been earned within the five years just preceding the completion of the requirements for the degree;
2. not fewer than 32 must have been completed in residence;
3. not fewer than 28 must have been in Economics courses in the 6100-6999 series;
4. not more than 5 may have been for a thesis (ECON 6910);
5. not more than 13 have been taken in "Unclassified Post-baccalaureate" status and/or for extension and/or transfer course credit, as approved by the department;
6. each course must have a grade of "C" or better and all 45 units must result in at least a 3.00 GPA

Required Courses (20 units)

- ECON 6101 - Seminar: Micro-Economic Theory I *Units: 4*
- ECON 6102 - Seminar: Micro-Economic Theory II *Units: 4*
- ECON 6105 - Seminar: Macro-Economic Theory *Units: 4*
- ECON 6400 - Seminar: Econometrics *Units: 4*
- ECON 6511 - Advanced Applied Econometrics *Units: 4*

Five Seminars from: (20 units)

- ECON 6200 - Seminar: Comparative Economic Systems *Units: 4*
- ECON 6250 - Seminar: Project Analysis *Units: 4*
- ECON 6315 - Seminar: Monetary Theory *Units: 4*

- ECON 6370 - Seminar: Public Sector Economics *Units: 4*
- ECON 6520 - Seminar: Industrial Organization and Public Policy *Units: 4*
- ECON 6680 - Seminar: Labor Economics *Units: 4*
- ECON 6710 - Seminar: International Economic Development *Units: 4*

Capstone Requirement (5 units):

Choose one of the following:

- ECON 6896 - Research Methods *Units: 5*
- ECON 6910 - University Thesis *Units: 1-6*

Comprehensive Exam (0 units)

Students in this program must also pass a two-part comprehensive exam: one in micro-economic theory and one in macro-economic theory

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate and Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation which are described throughout this catalog. These requirements include the 32-unit residence requirement, the five-year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website or call 510.885.3661.

Minor

Economics Minor

Department & Faculty Information

Minor Requirements (29 units)

The minor consists of 29 units. *Note:* A student cannot have both a Business Economics option under the Business Administration major and an Economics minor. Students must have at least 18 units in the minor that are not counted in the major requirement. This means that business administration students cannot receive an Economics minor.

Note: Students must have completed the prerequisites listed in the course description for any course they use to satisfy the following requirements

Lower Division Requirements:

Four courses (17 units) required:

- MATH 1130 - College Algebra *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*

- STAT 2010 - Elements of Statistics for Business and Economics *Units: 5*
or
- STAT 1000 - Elements of Probability and Statistics *Units: 5*

Upper Division Requirements:

Choice of three courses (12 units). One course from EACH group. **Note:** Complete the following courses as soon as possible after the lower division requirements have been satisfied.

Group #1

- ECON 3000 - Micro-Economic Theory *Units: 4*
- ECON 3551 - Managerial Economics and Business Strategy *Units: 4*

Group #2

- ECON 3005 - Macro-Economic Theory *Units: 4*
- ECON 3006 - Macro-Economics for Business *Units: 4*
- ECON 3107 - Global Economic Analysis *Units: 4*

Group #3

- ECON 3140 - Engineering Economy *Units: 4*
- INDE 3140 - Engineering Economy *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Educational Leadership

The Department Office is located on the 2nd Floor of the AE building, Room 250

Hours Open: 8:30 am to 5:00 pm Monday through Friday

Dept. Phone: (510) 885-4145

Faculty

Professors Emeriti

Emily Lowe Brizendine, Ed.D. University of California, Los Angeles

Ray C. García, Ed.D. University of Houston

José A. López, Ph.D. University of North Texas

Professors

Gilberto Arriaza, Ph.D. University of California, Berkeley

Peg Winkleman (Chair), Ph.D. University of California, Berkeley

Associate Professors

Barbara Plough, Ed.D. San Diego State University

Bradley Porfilio, Ph.D. State University of New York at Buffalo

Assistant Professors

Ardella J. Dailey, Ed.D. University of California, Berkeley

Miriama Smith Gray, Ph.D. University of California, Davis

Kathryn Hayes, Ph.D. University of California, Davis

Kathryn Strom, Ed.D. Montclair State University

Mission Statement:

The mission of the Department of Educational Leadership at CSUEB is to prepare and influence bold, socially responsible leaders who will transform the world of schooling. Our central role is to ignite the leadership capacity needed to create vital, democratic and caring places for powerful teaching and learning.

Credential Student Services Center



Credential (Post-Baccalaureate) Programs

Administrative Services Internship Credential

Department & Faculty Information

Cohorted Credential Programs

School districts throughout the Bay Area are working with CSU, East Bay with the goal of developing leadership core within districts' teacher force and building capacity in our schools. Year 1 cohorts will be offered in a variety of locations starting Fall Quarter. With the course work offered within a district or at another geographically convenient location, this program provides multiple leadership development opportunities.

Note: Credential requirements specified in this catalog are subject to changes made by the State of California.

Candidates must complete BOTH the Department of Educational Leadership and the California State University application processes.

Contact:

Credential Student Service Center,
25800 Carlos Bee Blvd.,
Arts & Education Building, room 235,
Hayward, CA 94542

Credential Requirements (45 units)

- EDLD 6000 - Introduction to Educational Leadership *Units: 4*
- EDLD 6400 - Instructional Leadership *Units: 4*
- EDLD 6410 - Supervision and Staff Development *Units: 4*
- EDLD 6550 - School Site Leadership and Organizational Behavior *Units: 4*
- EDLD 6650 - Educational Law for Equity *Units: 4*
- EDLD 6675 - School Finance and Human Resources for Equity *Units: 4*
- EDLD 6804 - Internship Fieldwork *Units: 6*
- EDLD 6805 - Internship Fieldwork *Units: 6*
- EDLD 6806 - Internship Fieldwork *Units: 6*
- EDLD 6814 - Internship Seminar *Units: 1*
- EDLD 6815 - Internship Seminar *Units: 1*

- EDLD 6816 - Internship Seminar *Units: 1*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Preliminary Administrative Services (Tier I) Credential

Department & Faculty Information

Cohorted Credential Programs

School districts throughout the Bay Area are working with CSU, East Bay with the goal of developing leadership core within districts' teacher force and building capacity in our schools. Year 1 cohorts will be offered in a variety of locations starting Fall Quarter. With the course work offered within a district or at another geographically convenient location, this program provides multiple leadership development opportunities.

Note: Credential requirements specified in this catalog are subject to changes made by the State of California.

Candidates must complete BOTH the Department of Educational Leadership and the California State University application processes.

Contact:

Credential Student Service Center,
25800 Carlos Bee Blvd.,
Arts & Education Building, room 235,
Hayward, CA 94542

Tier 1 Credential (36 units)

All Courses Required.

Proposed Course Sequence:

Fall Quarter (12 units)

- EDLD 6000 - Introduction to Educational Leadership *Units: 4*
- EDLD 6675 - School Finance and Human Resources for Equity *Units: 4 * This course is offered online/hybrid, leadership students need only attend face-to-face class from 4:30-8pm once a week.*
- EDLD 6801 - Fieldwork I *Units: 4*

Winter Quarter (12 units)

- EDLD 6400 - Instructional Leadership *Units: 4*

- EDLD 6650 - Educational Law for Equity *Units: 4 * This course is offered online/hybrid, leadership students need only attend face-to-face class from 4:30-8pm once a week.*
- EDLD 6802 - Fieldwork II *Units: 4*

Spring Quarter (12 units)

- EDLD 6410 - Supervision and Staff Development *Units: 4 * This course is offered online/hybrid, leadership students need only attend face-to-face class from 4:30-8pm once a week.*
- EDLD 6550 - School Site Leadership and Organizational Behavior *Units: 4*
- EDLD 6803 - Fieldwork III *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Professional Administrative Services (Tier II) Credential

Department & Faculty Information

Cohorted Credential Programs

School districts throughout the Bay Area are working with CSU, East Bay with the goal of developing leadership core within districts' teacher force and building capacity in our schools. Year 1 cohorts will be offered in a variety of locations starting Fall Quarter. With the course work offered within a district or at another geographically convenient location, this program provides multiple leadership development opportunities.

Note: Credential requirements specified in this catalog are subject to changes made by the State of California.

Candidates must complete BOTH the Department of Educational Leadership and the California State University application processes.

Contact:

Credential Student Service Center,
25800 Carlos Bee Blvd.,
Arts & Education Building, room 235,
Hayward, CA 94542

Credential Requirements (24 units)

This program is currently under review to comply with new CTC standards. Course list subject to change. Program is a 2 year program. You will take 2 classes per quarter. Classes meet 1 Saturday per month from 9am to 1pm.

- EDLD 6817 - Assessment, Mentoring, and Support Practicum I *Units: 3*

- EDLD 6818 - Assessment, Mentoring, and Support Practicum II *Units: 3*
- EDLD 6819 - Assessment, Mentoring, and Support Practicum III *Units: 3*
- EDLD 6831 - Assessment, Coaching and Support Practicum I *Units: 3*
- EDLD 6832 - Assessment, Coaching and Support Practicum II *Units: 3*
- EDLD 6833 - Assessment, Coaching and Support Practicum III *Units: 3*
- EDLD 6860 - Developing an Inquiring Community *Units: 1*
- EDLD 6865 - Focus on Learning *Units: 1*
- EDLD 6870 - Professional and Organizational Development *Units: 1*
- EDLD 6875 - Political Social Context in Education *Units: 1*
- EDLD 6880 - Ethics and Integrity *Units: 1*
- EDLD 6885 - Managing an Organization and Developing a Collaborative Culture
Units: 1

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Master of Science

Educational Leadership, M.S.

Department & Faculty Information

Educational Leadership (M.S.) 45 units

Program Description

The mission of the Department of Educational Leadership is to prepare bold, socially responsible leaders who will transform the world of schooling. Our central role is to help build the leadership capacity needed to create vital, democratic, professional learning communities for equitable learning and teaching.

The department offers graduate study leading to Doctor in Educational Leadership for Social Justice (Ed. D.), the Master of Science degree in Educational Leadership (MS) as well as programs approved by the California Commission on Teacher Credentialing leading to the Preliminary Administrative Services Credential (Tier I), Professional Administrative Services Credential (Tier II), and Internship Credential in Administrative Services (Education Code 44225 et al.). Students seeking the degree and any of the Administrative Services Credentials must meet the general university requirements as well as the departmental requirements listed below. Additional advising and information are available through the department and on the College of Education and Allied Studies website at:

<http://www.edschool.csueastbay.edu>. The delivery format of all these programs include online for students residing away from CSUEB areas of service, and a combination of online and regular face to face classes for the program serving our direct area of service. Entry to the regular program is currently fall quarter, winter quarter for the online program, and summer quarter for the Ed.D.

Student Learning Outcomes

Students graduating with an M.S. in Educational Leadership from Cal State East Bay will be able to:

1. Demonstrate knowledge, skills, and dispositions aligned with professional standards to implement universal design and research-based programs to achieve equitable learning outcomes;
2. Demonstrate the ability to create environments, systems, and practices in which all individuals are treated with respect, dignity, trust, and fairness;
3. Work collaboratively with students, parents, and professional colleagues to achieve equitable learning outcomes and equitable environments;
4. Know and demonstrate the content knowledge, pedagogical content knowledge and skills, and pedagogical and professional knowledge and skills, as defined by the California Commission on Teacher Credentialing [CTC] Standards for the Preliminary Administrative Services Credential.

Career Opportunities

Completion of the credential and master's programs, and the doctoral degree, enables graduates to obtain an administrative credential that allows them to assume administrative positions at all levels of the K-12 public educational system. Various positions include those in school sites administration (e.g., principal, vice principal), and district level administration (curriculum coordinator, staff development coordinator, special programs coordinator, personnel director, assistant superintendent, superintendent, etc.). In addition, graduates also obtain many positions at the county and state level offices.

Faculty

The department has eight full-time professors and instructors with earned doctorates who have had extensive experience in administrative positions at various levels in the public schools before joining the faculty. Their previous positions include leadership coaching, principal, viceprincipal, district curriculum coordinator, staff development coordinator, county training center director, personnel director, assistant superintendent and superintendent. Several have extensive experience in large scale school reform efforts and educational research. The faculty draws its strength from their diversity of experiences, professional and research interests, expertise, gender, cultural, racial and ethnic backgrounds. They are actively engaged with schools in the Bay Area, serving as consultants (nationally and internationally) and coaches in many facets of schooling. They are recognized as leaders in numerous regional, statewide, and national networks and professional organizations. The faculty is complemented by a select group of lecturers who are respected practicing administrators in Bay Area school districts and county education offices.

Special Features

Cohort Groups: In the fall quarter, all students are admitted into class groups, called cohorts, whose members take at least three courses and fieldwork together as a group during fall-winter-spring. Preliminary Administrative Credential Candidates (including interns) take three additional required courses on an individual basis. The three-quarter cohort time frame permits examination of issues as recurring themes.

School District Collaboration: Some cohort programs are unique in that they involve school districts in identifying educational leadership candidates.

The Internship Program: The department offers a way to acquire an Internship Administrative Services Credential: the Individual Internship Option. This program allows candidates to serve in an administrative capacity while completing credential requirements and are open only to students who are recommended by their districts and who hold either a full or a part-time administrative position. Students in the

Individual Internship Option can participate in any cohort, but must register for internship fieldwork and attend an internship seminar once a month. The common bond of participants is the commitment to improving achievement of all students and to creating an inclusive learning environment that values and reflects the diversity of American society.

Admission

A candidate must be admitted to the university, consistent with requirements and procedures explained in this catalog. Interested candidates apply for admission to the department and to the university at the same time. Candidates should directly contact the department office, 510-885-4145, or go to the department website, in early January for fall quarter entrance. Candidates are admitted to the masters degree program, and have the option of completing the requirements for the Administrative Services Tier I (Preliminary) Credential by the end of their first year of enrollment. Applications for admission to the department are online at the departmental website. All admissions materials should be sent to the CSUEB Credential Student Service Center (CSSC), AE 235, 25800 Carlos Bee Blvd., Hayward, CA 94542.

Additional requirements for admission to the M.S. in Educational Leadership and/or the Preliminary Administrative Services Credential include:

- A bachelor's degree
- 3.0 GPA or equivalent on all post-baccalaureate work
- Successful passage of the University Writing Skills Requirement, e.g., CBEST
- A current, valid basic teaching credential or services credential (Pupil Personnel Services, Adult Education, Librarianship, Health Services School Nurse, or Clinical Rehabilitative Services)
- A minimum of three years full-time teaching or service experience as documented by district verification (form available on department website)
- Internship candidates must verify administrative position (form available on department website)
- A current resume showing evidence of leadership experience
- Three recommendations (form available on department website)
- A one-page statement of professional goals
- University application, including two sets of transcripts
- All credential candidates must apply for "Classified Graduate" status. Credential only students must also successfully meet the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Requirements for the Professional Administrative Services Credential Program include:

- Current Preliminary Administrative Services Credential
- Verification of position as a school administrator (form available on the department website)
- A current resume showing evidence of leadership experience
- For "Classified Graduate" status and Advancement to Candidacy, M.S. students must have successfully met the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.)

M.S. Degree Requirements

1. A minimum of 45 quarter units of approved work, at least 32 of which must be in residence, and all completed within a five-year period.
2. A 3.0 GPA or better in all 45 quarter units offered as satisfying the requirements of the degree program.

3. Satisfactory completion of the University Writing Skills Requirement (required for "Classified Graduate" standing).
4. Satisfactory completion of EDLD 6908 - Graduate Synthesis in Educational Leadership which includes a comprehensive examination.

Curricular Requirements

The established pattern of required and approved courses is designed to meet both the preliminary credential and degree requirements. Students already holding credentials from other institutions take the degree and/or program requirements listed below and any additional courses required by department advisor to meet current MS degree and credential mandates.

- EDLD 6000 - Introduction to Educational Leadership *Units: 4*
- EDLD 6020 - Research in Education *Units: 4*
- EDLD 6400 - Instructional Leadership *Units: 4*
- EDLD 6410 - Supervision and Staff Development *Units: 4*
- EDLD 6550 - School Site Leadership and Organizational Behavior *Units: 4*
- EDLD 6650 - Educational Law for Equity *Units: 4*
- EDLD 6675 - School Finance and Human Resources for Equity *Units: 4*
- EDLD 6720 - Solving School Problems through the Application of Research *Units: 4*
- EDLD 6908 - Graduate Synthesis in Educational Leadership *Units: 4*
- and 9 units of electives selected through consultation with an advisor

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Doctor of Education

Educational Leadership for Social Justice, Ed.D.

Department & Faculty Information

Educational Leadership for Social Justice (Ed.D.) 90 units

Program Description

Recent legislation has authorized the California State University system to award the Doctor of Education (Ed. D.) degree in Educational Leadership. Offered by the Department of Educational Leadership, CSUEB began enrolling students in the Ed.D. program, Educational Leadership for Social Justice, summer 2008. Designed for educators who are employed in full-time positions, the program enrolls one cohort of educational leaders each year. Expected time to complete the degree, including writing the dissertation, is three calendar years, including summers.

The mission of the Doctoral Program, Educational Leadership for Social Justice (ELSJ), is to work with PK-12 educators and those in other agencies to prepare them to assume positions of leadership informed by a commitment to social justice. In particular, a primary objective of the ELSJ program is to prepare educators who will contribute to outcomes of educational equity by dismantling the academic opportunity gap between white students and populations of color. The program provides a blend of theory, research, and practice, in learning communities with faculty and other professionals and peers. Student develop a deeper understanding of themselves as educators, leaders, policy makers, and policy advocates as they develop the knowledge, skills and habits of mind necessary to improve the quality of student learning by enacting bold, socially responsible leadership.

These educators further develop their abilities to engage members of city governments, school boards, businesses, political and parental communities in joint efforts to create policy and make strategic decisions designed to radically improve the life chances of all children. Leaders forge and sustain cultures of change through collaboration, advocacy, and institutional transformation.

The Ed.D. represents the highest level of formal preparation in the discipline of Educational Leadership. Recipients of the degree join a community of individuals who represent not only the attainment of distinction in preparation and practice but who will also serve as stewards of public education, as leaders who will contribute to a vision of education for the public good.

Student Learning Outcomes

The Ed.D. program, Educational Leadership for Social Justice, is organized around the following set of goals:

1. **Reflective Practice**
To develop reflective leaders who can use self-analysis, inquiry and purposeful reflection to continually improve their own practice, model and encourage these habits with staff, and create communities of practice that promote high achievement for all students.
2. **Equity and Cultural Competency**
To develop culturally competent practitioner-advocates who purposefully work for equity and to dismantle systems of cultural and racial domination/oppression.
3. **Systems Thinking**
To develop skillful leaders who understand the dynamics of educational systems and who are able to leverage those systems in coherent, aligned strategies for educational change by creating democratic learning communities that promote high achievement for all students.
4. **Accountability for Equitable Student Performance**
To develop instructional leaders who possess the knowledge and ability to ensure that all students are producing high quality work and achieving at optimum levels by fostering effective curricular programs, student-centered learning environments, and accountable school cultures that reflect high expectations for student outcomes.
5. **Instructional Leadership**
To develop instructional leaders who inspire a shared vision and commitment to high student achievement

informed by best practices by developing structures and processes fostering collaboration and inquiry for continuous instructional improvement.

6. Leadership Capacity/Organizational Management

To develop leaders who assess, organize and allocate resources that build and sustain organizational culture, leadership, and change processes that move school systems toward meeting student achievement goals.

7. Policy/Politics

To develop leaders who understand the dynamic nature of school systems and educational politics in order to influence politics and policies at multiple levels in ways that support goals of inclusion and equity for all constituents, especially underrepresented groups.

8. Research

To develop leaders who are practitioner-researchers who purposefully engage in inquiry and construct knowledge that promotes equity in education and advances the public good.

Career Opportunities

Graduates with a doctoral degree in Educational Leadership serve in many different arenas that impact education. One career path for graduates is to become an executive leader in a school district or county office of education. Such positions include superintendents, assistant superintendents or directors of curriculum, programs or human relations. Other professionals obtaining the Ed.D. degree serve as policy makers in state and national departments of education, credentialing agencies or as staff for elected officials. A third group works with local, state or national educational foundations, school reform agencies, research organizations, or publishing companies. Many others direct grants or consult with schools or districts. Finally, people with Ed.D.s teach or serve in leadership roles in colleges and universities.

Faculty

Core faculty members for the Educational Leadership for Social Justice (ELSJ) Program are drawn from the Department of Educational Leadership and other Colleges from CSUEB. ELSJ core faculty members are active scholars who meet or exceed leadership and publication standards for their disciplines. This core faculty is deeply committed to improving pre-K to 12 education for the least served students. This commitment is deep, and includes participation in public discourse in the region and the State of California as well as formal research publications in national journals.

The core faculty strives for engaging research and theoretical work that leads directly to both, illuminating the issues schools face and designing initiatives for change. They have published in different journals covering a wide range of fields and study areas. In the field of education these journals include the following areas: teacher education, planning, leadership, administration, multicultural education, staff development, elementary, middle and high schooling, literacy, educational research, school reform, childhood, and adolescence. Additionally, core faculty scholarship extends to the fields of anthropology, sociology, psychiatry, religion, mathematics; and the area studies of women, race and ethnicity, gender, Latino studies, social justice, queer studies, and black studies.

Special Features

- Use of a cohort structure that will create and maintain a network of educators with shared goals and purposes; allow for individual interests and needs to enrich the dialogue among cohort members; establish

conditions of safety for full exploration of ideas, including competing views; and establish and reinforce norms associated with doctoral level intellectual and professional work.

- Deliberate use of the Summer Quarter as a means for intense "front loading" of content, information, and skills essential to the work that will follow. The first summer will include an induction into doctoral habits of mind, including our focus on equity and reflective practice. In the second summer, students will synthesize survey courses from the first year of curriculum within the context of their own professional interests and begin to identify and explore possible dissertation topics. The third summer will focus on the development, review and approval of the dissertation proposal including clarification of research methodology, development of data instruments and preparation of Institutional Review Board (IRB) submission so that the last year is focused primarily on dissertation work.
- A combination of course formats, including (but not limited to) summer and weekend intensives, standard face-to-face weekly evening courses; online studies; hybrid courses that combine online work with face-to-face seminars; some on-the job site-or district-based practice where theory and practice meet, and individualized studies associated with completion of the dissertation.

Admission Requirements

To be considered for admission to the ELSJ program (1) an applicant must have educational leadership experience in PK-12, alternative education, or other agency settings that serve PK-14 students and be (2) committed to continuing as a public school administrator who will influence excellence and equity.

To be admitted to the ELSJ program, applicants must meet the academic requirements as well as demonstrate professional experiences and academic skills that suggest a strong potential for success as doctoral candidates and as bold, socially responsible educational leaders. Meeting the minimum requirements qualifies an individual for consideration, but does not guarantee admission to the ELSJ program. Admission will be granted on a competitive basis and limited to 20 candidates on an annual basis. The ELSJ program will not include a foreign language requirement.

The ELSJ program requires the following of all applicants for admission to the doctoral program:

- an earned baccalaureate degree and master's degree from accredited institutions of higher education with a GPA in graduate study of 3.0 or above;
- submission of Graduate Record Examination (GRE) scores from within the last five years; GRE(r) General Test Overview;
- demonstrated leadership skills and abilities in PK-12 schools or closely related fields (e.g., school reform networks, policy institutions);
- demonstrated and documented professional or personal commitment to equity and social justice;
- demonstrated academic excellence;
- professional experiences which demonstrate problem-solving ability and an interest in critically assessing current educational policies and practices;
- three confidential recommendation forms attesting to the leadership ability, equity commitment and capacity of the candidate to undertake doctoral-level work;
- professional resume;
- a written response to a writing prompt concerning issues of school effectiveness and the challenges facing leaders in bringing about sustained change that will result in equitable outcomes for all students in California;
- a portfolio of at least one, and no more than three, samples of work that demonstrate how the candidate's leadership has made a difference in student learning outcomes - for each item, include a brief paragraph that identifies the issue represented by the item, the desired goal, and what the item illustrates about the candidate's competencies;

- Employer/District Support Agreement stating support for the candidate's doctoral studies from her/his employer or, in the cases where this is not provided, an individual plan for meeting the demands of the program and his/her professional responsibilities, including support systems that the individual expects to access.

Application and Admissions Procedures

The process of applying and being admitted to the ELSJ program is a two-step procedure:

The first step requires that you apply for admission to the Department of Educational Leadership. If you are a successful applicant and you are admitted into the ELSJ program by the department, then you will be authorized to submit your application in order to be officially admitted to the university.

Applications and more information are available on the program website.

Ed.D. Degree Requirements

1. The degree requires a minimum of 90 quarter units of approved doctoral level work including 12 units for dissertation studies all to be completed within a three-year period. Students must take classes at a CSUEB facility for no less than two quarters each year of the program.
2. A 3.0 GPA or better in all 90 quarter units offered as satisfying the requirements of the degree.
3. Satisfactory performance on two qualifying examinations and approval of dissertation prospectus.
4. Completion and defense of dissertation.

Academic Residence

At least 42 semester units shall be completed in residence at California State University at East Bay in order to meet requirements for obtaining an Ed.D. degree.

Transfer of Units

Nine quarter units (equal to six semester units) of advanced level coursework (beyond the Master's degree) as a matriculated student from an accredited institution may be transferred into the doctoral program, subject to the approval of the Director of the ELSJ Program. The coursework must be deemed equivalent to ELSJ coursework. Students must have earned a grade of B or better in the transferred course. Transfer courses may not have been taken more than 7 years prior to anticipated graduation from the ELSJ Program.

Curricular Requirements

Schedule of courses for full cycle of program: Courses take place all four quarters of the school year. Each cohort begins summer quarter and enrolls for a total of 12 quarters.

First Year

Summer -

- EDLD 8000 - Values and Purposes of Educational Leadership *Units: 2*
- EDLD 8020 - Leadership for Equity I *Units: 4*
- EDLD 8080 - Conceptual Foundations of Research *Units: 4*

Fall -

- EDLD 8031 - Schools as Organizations: Linking Theory and Practice *Units: 4*

- EDLD 8021 - Leadership for Equity II *Units: 4*
Winter -
- EDLD 8030 - Leadership in Systemic Reform *Units: 4*
- EDLD 8050 - Leadership in Curriculum and Instructional Reform *Units: 4*
- EDLD 8070 - Governance, Law and Policy Development *Units: 4*
Spring -
- EDLD 8083 - Defining Educational Issues *Units: 4*
- EDLD 8032 - Sustainability of Educational Reform *Units: 4*

Second Year

Summer -

- EDLD 8081 - Qualitative and Quantitative Methods A *Units: 4*
- EDLD 8071 - Governance and Policy Development *Units: 4*

Fall -

- EDLD 8084 - Applied Research Methods A *Units: 4*
- EDLD 8010 - Applied Study of Educational Issues I *Units: 3*
- EDLD 8040 - Program Planning and Evaluation *Units: 4*

Winter -

- EDLD 8085 - Applied Research Methods B *Units: 4*
- EDLD 8011 - Applied Study of Educational Issues II *Units: 2*

Spring -

- EDLD 8086 - Dissertation Seminar *Units: 4*
- EDLD 8041 - Leadership for Educational Accountability *Units: 4*

Third Year

Summer -

- EDLD 8082 - Qualitative and Quantitative Methods B *Units: 4*
- EDLD 8060 - Leadership in Resource Management *Units: 4*

Fall -

- EDLD 8087 - Dissertation Studies *Units: 3*

Winter -

- EDLD 8087 *Units:3*

Spring -

- EDLD 8012 - Advanced Topics in Educational Leadership *Units: 3*
- EDLD 8087 *Units:3*

Additional Recommended Course

This elective course is for students who may require additional study related to elements of dissertation work (e.g., identification of researchable questions, preparation of literature reviews, study design, proposal development, Institutional Review Board process, and academic writing). This course, which may be taken for 2-4 units and repeated once, will be recommended by faculty advisors. Units for this course will not be counted toward the total units required for the degree

- EDLD 8900 - Independent Study *Units: 2-4*

Professional Residency

Students will engage in many field-based activities and assessments in their various courses and dissertation work. These field experiences will be designed to meet the specific interests and needs of students with respect to their mastery of goals and learning outcomes as well as with respect to their proposed dissertation studies.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Department of Educational Psychology

The Department Office is located on the 2nd Floor of the AE building, Room 250.

Hours Open: 8:30 am to 5:00 pm Monday through Friday.

Dept. Phone: (510) 885-3011

Faculty

Professors Emeriti

Jacki L. Anderson, Ph.D. University of Wisconsin

Ann Halvorsen, Ed.D. University of California, Berkeley/San Francisco State University

Rolla Lewis, Ed.D. University of San Francisco (FERP)

Professors

John M. Davis (Chair), Ph.D. University of California, Berkeley

R. Greg Jennings, Ph.D. University of California, Berkeley

Linda Smetana, Ed.D. Brigham Young University

Associate Professors

Randi Cowdery, Ph.D. Loma Linda University

Janet P. Logan, Ph.D. University of Wyoming

Terry Soo-Hoo, Ph.D. University of California, Berkeley

Oanh Kim Tran, Ph.D. University of Oregon

Assistant Professor

Angela Tang, Ph.D. Oregon State University

Graduate Coordinators:

- *M.S. in Special Education*
Ann T. Halvorsen (Moderate-Severe Disabilities)
Linda Smetana (Mild-Moderate Disabilities)
- *M.S. Counseling*
Greg Jennings (Clinical Child/School Psychology)
Randi Cowdery (Marriage and Family Therapy)
Angela Tang (School Counseling, and Marriage, Family Therapy)

Mission Statement

The mission of the Department of Educational Psychology is to prepare a diverse population of students as professional counselors, psychologists, special education specialists, and researchers for effective and innovative work in a variety of settings, including schools, agencies, hospitals, and industry.

Clubs and Organizations

Credential (Post-Baccalaureate) Programs

Preliminary Education Specialist Credential: Mild-Moderate Disabilities

Department & Faculty Information

Special Education Programs of Study

Faculty: Jacki L. Anderson and Ann T. Halvorsen (Co-coordinators, Moderate-Severe Disabilities); Linda Smetana (Coordinator, Mild-Moderate Disabilities)

The Special Education program prepares their graduates for careers in direct teaching and for leadership roles in Special Education. Programs are offered which lead to:

- Master of Science Degree in Special Education, Mild-Moderate Disabilities Option, M.S.
- Master of Science Degree in Special Education, Moderate-Severe Disabilities Option, M.S.
- Preliminary Education Specialist Credential: Mild-Moderate Disabilities
- Preliminary Education Specialist Credential: Moderate-Severe Disabilities

The programs' emphasis is providing students with a wide range of practical methods for enhancing the lives of individuals with exceptional needs. To this end, coursework is taught by University faculty and successful practitioners in the field. The programs provide extensive supervised fieldwork in settings that are appropriate to each student's professional goals.

Education Specialist Credential

Program Requirements:

To earn the Preliminary Education Specialist Credential all candidates must:

1. hold a valid Multiple Subject or Single Subject Teaching Credential, **or**
2. be enrolled in the joint Multiple Subject/Education Specialist (TED/SPED) program.

Core Courses (60 units)

The following core requirements apply to both Preliminary Education Specialist Credentials in Mild-Moderate Disabilities and Moderate-Severe Disabilities:

- EPSY 5021 - Introduction to Educating all Students in Diverse Classrooms *Units: 4*
- EPSY 5126 - Special Education Law and Program Design *Units: 4*
- EPSY 6120 - Communication: Collaborative Teaming and Management *Units: 4*
- EPSY 6124 - Augmentative Communication and Assistive Technology *Units: 4*
- EPSY 6129 - Advanced Study in Collaborative Service Delivery, Education, and Transition *Units: 4*
- EPSY 6141 - Social Networks and Communication for Students with Autism Spectrum Disorders (ASD) and Other Disabilities *Units: 4*
- EPSY 6143 - Positive Behavior Supports *Units: 4*
- EPSY 6860 - Advanced Fieldwork I *Units: 2-4*
- EPSY 6862 - Advanced Fieldwork II *Units: 2-4*
- EPSY 6880 - Advanced Internship *Units: 2-15*
- EPSY 6999 - Issues in Educational Psychology *Units: 2*

Mild-Moderate Disabilities Required Courses (27 units)

- EPSY 5125 - Educational Practices: Mild-Moderate Disabilities *Units: 4*
- EPSY 6127 - Instruction and Behavioral Support: Mild-Moderate Disabilities *Units: 4*
- EPSY 6131 - Assessments: Students with Mild-Moderate Disabilities *Units: 4*
- EPSY 6133 - Curriculum: Students with Mild-Moderate Disabilities *Units: 4*
- EPSY 6134 - Advanced Curriculum and Instruction: Mild-Moderate Disabilities *Units: 4*
- EPSY 6206 - Advanced Studies in the Education of Students with Mild-Moderate Disabilities: Research and Professional Practice *Units: 4*
- EPSY 6670 - Field Work Group Supervision I *Units: 3*

Pathway Options

The programs described below are not required for the Preliminary Education Specialist Credential. However, students may choose to enter one or both of these programs, which also offer a pathway to the Preliminary Education Specialist Credential.

Education Specialist Employed Teacher Internship Program

The Education Specialist Employed Teacher Internship program enables eligible candidates to earn the Preliminary Education Specialist Credential while teaching full or part-time. Candidates for this program must be currently enrolled in the Credential program and have the approval of the Program Coordinator.

Candidates in the Internship program must complete all the required courses listed for the Preliminary Education Specialist Credential. In addition, they must complete the following course:

- EPSY 6770 - Internship *Units: 2-6*
Note: The number of units depends on the point-of-entry into the internship program. Education Specialist Credential candidates may take 6770 for a maximum of 12 units.

Concurrent Multiple Subject and Education Specialist Credentials (TED/SPED Program)

In this program, candidates earn both a Multiple Subject and Educational Specialist Credential (either Mild-Moderate or Moderate-Severe). This program is for candidates who want to earn both a multiple subject teaching credential and an Education Specialist Credential at the same time. The requirements for the Multiple Subject Credential are listed under MSV standard pathway. However, candidates only complete two of the three multiple subject student teaching placements. The requirements for the Preliminary Education Specialist Credentials are listed above. This is a two-year program, and the schedule of course offerings will vary with each entering cohort.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Preliminary Education Specialist Credential: Moderate-Severe Disabilities

Department & Faculty Information

Special Education Programs of Study

Faculty: Jacki L. Anderson and Ann T. Halvorsen (Co-coordinators, Moderate-Severe Disabilities); Linda Smetana (Coordinator, Mild-Moderate Disabilities)

The Special Education program prepares their graduates for careers in direct teaching and for leadership roles in Special Education. Programs are offered which lead to:

- Master of Science Degree in Special Education, Mild-Moderate Disabilities Option, M.S.
- Master of Science Degree in Special Education, Moderate-Severe Disabilities Option, M.S.
- Preliminary Education Specialist Credential: Mild-Moderate Disabilities
- Preliminary Education Specialist Credential: Moderate-Severe Disabilities

The programs' emphasis is providing students with a wide range of practical methods for enhancing the lives of individuals with exceptional needs. To this end, coursework is taught by University faculty and successful practitioners in the field. The programs provide extensive supervised fieldwork in settings that are appropriate to each student's professional goals.

Education Specialist Credential

Program Requirements:

To earn the Preliminary Education Specialist Credential all candidates must:

1. hold a valid Multiple Subject or Single Subject Teaching Credential, **or**
2. be enrolled in the joint Multiple Subject/Education Specialist (TED/SPED) program.

Moderate-Severe Disabilities Required Courses (23 units)

- EPSY 5136 - Educational Practices: Moderate-Severe Disabilities *Units: 4*
- EPSY 6137 - Instructional and Behavioral Support: Moderate-Severe Disabilities *Units: 4*
- EPSY 6140 - Curriculum: Students with Moderate-Severe Disabilities *Units: 4*
- EPSY 6142 - Assessment: Students with Moderate-Severe Disabilities *Units: 4*
- EPSY 6207 - Advanced Studies in the Education of Students with Moderate to Severe Disabilities: Research and Professional Practice *Units: 4*
- EPSY 6671 - Field Work Group Supervision II *Units: 3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Pupil Personnel Credential: School Counseling

Department & Faculty Information

Pupil Personnel Credential

The coursework for the M.S. in Counseling allow for following credentials:

- Pupil Personnel Credential: School Counseling
 - Pupil Personnel Credential: School Psychology
- Use these links to see the program requirements for the M.S. in Counseling:

Counseling, Clinical Child/School Psychology Option, M.S.

Counseling, Marriage and Family Therapy Option, M.S.

Counseling, School Counseling Option, M.S.

Prerequisite

The M.S. in Counseling (or an acceptable equivalent) is required.

School Counseling Specialization

The Pupil Personnel Credential (School Counseling Specialization) is offered through the School Counseling, and Marriage, Family Therapy program. This credential is required for work as a counselor in the public schools, and is approved by the California Commission of Teacher Credentialing (CTC). The commission sets the standards and competencies for the state, and Cal State East Bay's program is designed to incorporate all knowledge, skills and practical experiences required to meet those expectations 3.

The School Counseling Credential program is a two-year course of study that reflects an integration of local program needs, the campus mission, and the direction provided by the National Standards and National Model of the American School Counselor Association (ASCA) and the National Career Development Guidelines (NOICC). The program is designed to train competent practitioners who are prepared to be leaders in building comprehensive, results-based school counseling programs that serve the needs of all pupils. The program provides training in mental health services using an integrated model designed to serve marriage and family therapists, school counseling and school psychology students. The school counseling students, however, will receive additional training and experience to prepare them to effectively perform the functions of a school counselor. The School Counseling Credential program includes specific training in guidance program models, guidance program development/implementation, and in the comprehensive and developmental school guidance curricula for academic, career, and personal/social development. Students also learn team building, management, and accountability for a comprehensive guidance program.

Course Requirements (49-58 units)

All courses required; however, many of these courses are required under the M.S. in Counseling degree options. Please see your advisor/coordinator to determine which courses are best for your degree/credential goals.

- EPSY 5610 - Microcounseling I *Units: 2*

- EPSY 6025 - Psychopathology of Childhood *Units: 4*
- EPSY 6205 - Advanced Pupil Personnel Specialist *Units: 4*
- EPSY 6400 - Family Psychotherapy *Units: 4*
- EPSY 6403 - Psychotherapy for Children *Units: 4*
- EPSY 6500 - Cognitive Behavior Therapy *Units: 4*
- EPSY 6600 - Clinic Rounds *Units: 3* (3-unit minimum. May be repeated seven times for credit for a maximum of 8 units)
- EPSY 6669 - Seminar in Mental Health Consultation *Units: 3*
- EPSY 6764 - Intervention Strategies for Systems and Organizational Change *Units: 4*
- EPSY 6765 - Psychological and Counseling Services in Schools and Higher Education *Units: 2*
- EPSY 6766 - Personal/Social Counseling in Schools *Units: 2*
- EPSY 6767 - Academic Counseling in Schools *Units: 3*
- EPSY 6768 - Foundations of School Counseling *Units: 4*
- EPSY 6786 - Child Abuse Assessment *Units: 1*
- EPSY 6770 - Internship *Units: 2-6* (may be taken multiple quarters)
- Passing score on Comprehensive Exam in School Counseling

Note:

3. California Commission of Teacher Credentialing (CCTC) approval of revised program documents for new Standards and Competencies pending.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Pupil Personnel Credential: School Psychology

Department & Faculty Information

Pupil Personnel Credential

The coursework for the M.S. in Counseling allow for following credentials:

- Pupil Personnel Credential: School Counseling
- Pupil Personnel Credential: School Psychology

Use these links to see the program requirements for the M.S. in Counseling:

Counseling, Clinical Child/School Psychology Option, M.S.

Counseling, Marriage and Family Therapy Option, M.S.

Counseling, School Counseling Option, M.S.

Prerequisite

The M.S. in Counseling (or an acceptable equivalent) is required.

The Combined Credential Program

This combined credential program is offered by the Clinical Child/School Psychology faculty.

The school psychologist is a clinical child psychologist who functions within the school organization. The school psychologist provides consultation and services for enhancement of the cognitive, social and emotional development of children and adolescents within the school environment; provides programs for the development of the staff; has responsibility for the prevention, assessment, and remediation of the behavioral and learning difficulties of children; and often becomes the primary resource for the emotionally troubled children and their parents. The school psychologist serves the schools as the expert in psycho-educational measurement, program evaluation, and research.

School Psychology Internship

This program prepares students to undertake a full-time (1200-hour) Internship in School Psychology, as required by the National Association of School Psychologists and, as of July, 1996, by the Commission on Teacher Credentialing of the State of California.

Note that the Internship Credential would serve to qualify a student for internship status, and thus would have to be earned prior to the actual internship year itself.

Required Courses (67 units)

All courses required; however, many of these courses are required under the M.S. in Counseling degree options. Please see your advisor/coordinator to determine which courses are best for your degree/credential goals.

- EPSY 5610 - Microcounseling I *Units: 2*
- EPSY 6025 - Psychopathology of Childhood *Units: 4*
- EPSY 6301 - Pediatric Psychology *Units: 4*
- EPSY 6400 - Family Psychotherapy *Units: 4*
- EPSY 6403 - Psychotherapy for Children *Units: 4*
- EPSY 6500 - Cognitive Behavior Therapy *Units: 4*
- EPSY 6610 - Graduate Seminar I *Units: 2*
- EPSY 6620 - Graduate Seminar II *Units: 2*
- EPSY 6630 - Graduate Seminar III *Units: 2*
- EPSY 6669 - Seminar in Mental Health Consultation *Units: 3*
- EPSY 6720 - Theory and Assessment of Cognition *Units: 4*
- EPSY 6746 - Neuropsychology of Learning Disabilities *Units: 4*
- EPSY 6765 - Psychological and Counseling Services in Schools and Higher Education *Units: 2*
- EPSY 6810 - Advanced Graduate Seminar I *Units: 2*
- EPSY 6820 - Advanced Graduate Seminar II *Units: 2*
- EPSY 6830 - Advanced Graduate Seminar III *Units: 2*
- EPSY 6870 - Advanced Field Work Group Supervision I *Units: 3*

- EPSY 6871 - Advanced Field Work Group Supervision II *Units: 3*
- EPSY 6872 - Advanced Field Work Group Supervision III *Units: 3*
- EPSY 6911 - Developmental Assessment Practicum *Units: 4*
- EPSY 6912 - Personality Assessment *Units: 4*
- 3 units of graduate level coursework covering the topic of Program Evaluation, with consent of department

School Psychology Specialization Required Coursework (49 units)

The School Psychology Specialization requires completion of all School Psychology Internship units listed above plus the following coursework:

- EPSY 6205 - Advanced Pupil Personnel Specialist *Units: 4*
- EPSY 6880 - Advanced Internship *Units: 2-15 (15-units x3 required for 45 units)*
- Passing score on Praxis II exam, National Examination for School Psychology Certification

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Master of Science

Counseling, Clinical Child/School Psychology Option, M.S.

Department & Faculty Information

Counseling (M.S.) 72 units

The Master of Science in Counseling degree prepares graduates to work with youth, adults, and families in a wide range of agencies and businesses. Some graduates go on to become counselors in junior colleges and college-counseling settings.

CSU East Bay offers three distinct Options within the M.S in Counseling. Individuals interested in a M.S. in Counseling degree must enroll in one of the following options:

- **Marriage and Family Therapy (MFT) Option**
 - The Marriage and Family Therapy Option requires a two-year course of study that leads to a Master of Science in Counseling degree and meets the educational requirements for California licensure for both Marriage and Family Therapy and the Licensed Professional Clinical Counselor License (LPCC).
- **School Counseling Option**
 - The School Counseling Option requires a two-year, year-round, full-time course of study that leads to a MS in Counseling degree, the California Pupil Personnel Service (PPS) Credential in School Counseling, and meets the educational requirements for California intern licensure in Marriage and Family Therapy.
- **Clinical Child/School Psychology/MFT Option**
 - The Clinical Child/School Psychology Option is a three-year, year-round, full-time course of study accredited by the National Association of School Psychologists (NASP). This option leads to an MS in Counseling and meets the educational requirements for a California Pupil Personnel Services credential in School Psychology and intern licensure in Marriage and Family Therapy.

MFT and School Counseling students completing the MS in Counseling Option requirements, and hourly licensing requirements are eligible to apply for the Licensed Professional Clinical Counselor License (LPCC), which is awarded by the California Board of Behavioral Science (BBS). School Psychology students completing the MS in Counseling Option requirements are eligible to apply for the National Certification in School Psychology (NCSP), which is awarded by the National Association of School Psychologists (NASP) and are nationally recognized after completing two years in the field.

Admission Requirements

- Bachelor's degree from an accredited university
- Department Application, including the following:
 - A personal statement about professional goals
 - Three letters of reference
 - GRE (verbal reasoning, quantitative reasoning, and analytical writing)
 - *For School Counseling and School Psychology candidates only:* Basic Skills Requirement (http://www.csueastbay.edu/ceas/departments/epsy/prog_spmft.html#reqs)
- University Application
- Cumulative undergraduate GPA of 3.0

Prerequisites

These courses, or equivalencies at other universities, are not included in the total required for the MS in Counseling:

- Elements of Probability and Statistics
- Abnormal Psychology
- Choose one of the following:
 - Developmental Psychology
 - Theories of Learning
 - Personality Theory or Development
- *For School Psychology candidates only:*
 - Theories of Learning
 - Psychological Tests

To earn the MS in Counseling degree, candidates must do the following:

- Complete all coursework toward the degree with a grade of B or higher
- Complete the University Writing Skills Test (WST) requirement
- Advancement to Candidacy
- Receive satisfactory evaluations from fieldwork and University supervisors/professors
- Demonstrate Ethical and Professional Program Expectations and Dispositions
- Complete required field-based practicum hours
- *For School Counseling and School Psychology candidates only:*
 - Pass the PRAXIS exam

Required Core Courses (40-units)

The M.S. degree in Counseling requires 72 units organized according to university requirements (see the Graduate/Post-Baccalaureate Admission and Degree Information chapter in this catalog). Requirements are established to ensure that each degree candidate obtains adequate breadth in subject matter, field experiences, and research.

Core courses for the MS in Counseling (i.e., these courses must be taken in addition to courses specific to each option).

Note: Additional course work, beyond that required for the masters, may be required for professional licensure and/or credentials.

- EPSY 6023 - Research in Applied Behavioral Sciences *Units: 4*
- EPSY 6302 - Individual Development *Units: 4*
- EPSY 6670 - Field Work Group Supervision I *Units: 3*
- EPSY 6671 - Field Work Group Supervision II *Units: 3*
- EPSY 6672 - Field Work Group Supervision III *Units: 3*
- EPSY 6701 - Appraisal Procedures: Standardized *Units: 4*
- *OR* EPSY 6720 - Theory and Assessment of Cognition *Units: 4*
- EPSY 6750 - Foundations of Counseling *Units: 4*
- EPSY 6752 - Cross-Cultural Counseling *Units: 4*
- EPSY 6762 - Group Procedures and Facilitation *Units: 4*
- EPSY 6775 - Community Mental Health Counseling *Units: 4*
- EPSY 6785 - Law and Ethics in Counseling *Units: 3*

Elective Courses (0-13 units)

Elective courses to be determined by advisor/coordinator. Total number of elective units for the masters depend on the degree option.

Note: Additional course work, beyond that required for the masters, may be required for professional licensure and/or credentials.

Capstone Requirements (0-9 units)

Students must successfully complete either a University Thesis, a Departmental Thesis, a Project, or a Comprehensive Examination. See your advisor/coordinator to determine the best capstone for your goals.

Option Requirements (19-22 units)

To earn the MS in Counseling at CSU East Bay, students must enroll in one of the three options listed below:

- Counseling, Clinical Child/School Psychology Option, M.S.
- Counseling, Marriage and Family Therapy Option, M.S.
- Counseling, School Counseling Option, M.S.

Clinical Child/School Psychology Option (19 units)

Faculty: Dr. John M. Davis, Dr. Greg Jennings (Coordinator), Dr. Oanh Tran

Required Courses for the Option

For additional specific program requirements please see *Pupil Personnel Credential: School Psychology Internship and School Psychology Specialization*

- EPSY 6403 - Psychotherapy for Children *Units: 4*
- EPSY 6500 - Cognitive Behavior Therapy *Units: 4*
- EPSY 6669 - Seminar in Mental Health Consultation *Units: 3*
- EPSY 6911 - Developmental Assessment Practicum *Units: 4*
- EPSY 6912 - Personality Assessment *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Counseling, Marriage and Family Therapy Option, M.S.

Department & Faculty Information

Counseling (M.S.) 72 units

The Master of Science in Counseling degree prepares graduates to work with youth, adults, and families in a wide range of agencies and businesses. Some graduates go on to become counselors in junior colleges and college-counseling settings.

CSU East Bay offers three distinct Options within the M.S in Counseling. Individuals interested in a M.S. in Counseling degree must enroll in one of the following options:

- **Marriage and Family Therapy (MFT) Option**
 - The Marriage and Family Therapy Option requires a two-year course of study that leads to a Master of Science in Counseling degree and meets the educational requirements for California licensure for both Marriage and Family Therapy and the Licensed Professional Clinical Counselor License (LPCC).
- **School Counseling Option**
 - The School Counseling Option requires a two-year, year-round, full-time course of study that leads to a MS in Counseling degree, the California Pupil Personnel Service (PPS) Credential in School Counseling, and meets the educational requirements for California intern licensure in Marriage and Family Therapy.
- **Clinical Child/School Psychology/MFT Option**
 - The Clinical Child/School Psychology Option is a three-year, year-round, full-time course of study accredited by the National Association of School Psychologists (NASP). This option leads to an MS in Counseling and meets the educational requirements for a California Pupil Personnel Services credential in School Psychology and intern licensure in Marriage and Family Therapy.

MFT and School Counseling students completing the MS in Counseling Option requirements, and hourly licensing requirements are eligible to apply for the Licensed Professional Clinical Counselor License (LPCC), which is awarded by the California Board of Behavioral Science (BBS). School Psychology students completing the MS in Counseling Option requirements are eligible to apply for the National Certification in School Psychology (NCSP), which is awarded by the National Association of School Psychologists (NASP) and are nationally recognized after completing two years in the field.

Admission Requirements

- Bachelor's degree from an accredited university
- Department Application, including the following:
 - A personal statement about professional goals
 - Three letters of reference
 - GRE (verbal reasoning, quantitative reasoning, and analytical writing)
 - *For School Counseling and School Psychology candidates only:* Basic Skills Requirement (http://www.csueastbay.edu/ceas/departments/epsy/prog_spmft.html#reqs)
- University Application
- Cumulative undergraduate GPA of 3.0

Prerequisites

These courses, or equivalencies at other universities, are not included in the total required for the MS in Counseling:

- Elements of Probability and Statistics
- Abnormal Psychology
- Choose one of the following:
 - Developmental Psychology
 - Theories of Learning
 - Personality Theory or Development
- *For School Psychology candidates only:*
 - Theories of Learning
 - Psychological Tests

To earn the MS in Counseling degree, candidates must do the following:

- Complete all coursework toward the degree with a grade of B or higher
- Complete the University Writing Skills Test (WST) requirement
- Advancement to Candidacy
- Receive satisfactory evaluations from fieldwork and University supervisors/professors
- Demonstrate Ethical and Professional Program Expectations and Dispositions
- Complete required field-based practicum hours
- *For School Counseling and School Psychology candidates only:*
 - Pass the PRAXIS exam

Required Core Courses (40-units)

The M.S. degree in Counseling requires 72 units organized according to university requirements (see the Graduate/Post-Baccalaureate Admission and Degree Information chapter in this catalog). Requirements are established to ensure that each degree candidate obtains adequate breadth in subject matter, field experiences, and research.

Core courses for the MS in Counseling (i.e., these courses must be taken in addition to courses specific to each option).

Note: Additional course work, beyond that required for the masters, may be required for professional licensure and/or credentials.

- EPSY 6023 - Research in Applied Behavioral Sciences *Units: 4*
- EPSY 6302 - Individual Development *Units: 4*
- EPSY 6670 - Field Work Group Supervision I *Units: 3*
- EPSY 6671 - Field Work Group Supervision II *Units: 3*
- EPSY 6672 - Field Work Group Supervision III *Units: 3*
- EPSY 6701 - Appraisal Procedures: Standardized *Units: 4*
- *OR* EPSY 6720 - Theory and Assessment of Cognition *Units: 4*
- EPSY 6750 - Foundations of Counseling *Units: 4*
- EPSY 6752 - Cross-Cultural Counseling *Units: 4*
- EPSY 6762 - Group Procedures and Facilitation *Units: 4*
- EPSY 6775 - Community Mental Health Counseling *Units: 4*
- EPSY 6785 - Law and Ethics in Counseling *Units: 3*

Elective Courses (0-13 units)

Elective courses to be determined by advisor/coordinator. Total number of elective units for the masters depend on the degree option.

Note: Additional course work, beyond that required for the masters, may be required for professional licensure and/or credentials.

Capstone Requirements (0-9 units)

Students must successfully complete either a University Thesis, a Departmental Thesis, a Project, or a Comprehensive Examination. See your advisor/coordinator to determine the best capstone for your goals.

Option Requirements (19-22 units)

To earn the MS in Counseling at CSU East Bay, students must enroll in one of the three options listed below:

- Counseling, Clinical Child/School Psychology Option, M.S.
- Counseling, Marriage and Family Therapy Option, M.S.
- Counseling, School Counseling Option, M.S.

Marriage and Family Therapy Option (20-22 units)

Faculty: Dr. Randi Cowdery and Dr. Terry Soohoo

Required Courses for the Option

- EPSY 6025 - Psychopathology of Childhood *Units: 4*
- *OR* EPSY 6026 - Psychopathology in Adulthood *Units: 4*
- EPSY 6027 - Chemical Dependence Theory *Units: 4*
- *OR* EPSY 6029 - Seminar in Chemical Dependency *Units: 2*
- EPSY 6400 - Family Psychotherapy *Units: 4*
- EPSY 6403 - Psychotherapy for Children *Units: 4*
- EPSY 6406 - Seminar in Human Sexuality *Units: 2*
- EPSY 6500 - Cognitive Behavior Therapy *Units: 4*
- *OR* EPSY 6751 - Counseling and Psychotherapy Theory *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Counseling, School Counseling Option, M.S.

Department & Faculty Information

Counseling (M.S.) 72 units

The Master of Science in Counseling degree prepares graduates to work with youth, adults, and families in a wide range of agencies and businesses. Some graduates go on to become counselors in junior colleges and college-counseling settings.

CSU East Bay offers three distinct Options within the M.S in Counseling. Individuals interested in a M.S. in Counseling degree must enroll in one of the following options:

- **Marriage and Family Therapy (MFT) Option**
 - The Marriage and Family Therapy Option requires a two-year course of study that leads to a Master of Science in Counseling degree and meets the educational requirements for California licensure for both Marriage and Family Therapy and the Licensed Professional Clinical Counselor License (LPCC).
- **School Counseling Option**
 - The School Counseling Option requires a two-year, year-round, full-time course of study that leads to a MS in Counseling degree, the California Pupil Personnel Service (PPS) Credential in School Counseling, and meets the educational requirements for California intern licensure in Marriage and Family Therapy.
- **Clinical Child/School Psychology/MFT Option**
 - The Clinical Child/School Psychology Option is a three-year, year-round, full-time course of study accredited by the National Association of School Psychologists (NASP). This option leads to an MS in

Counseling and meets the educational requirements for a California Pupil Personnel Services credential in School Psychology and intern licensure in Marriage and Family Therapy.

MFT and School Counseling students completing the MS in Counseling Option requirements, and hourly licensing requirements are eligible to apply for the Licensed Professional Clinical Counselor License (LPCC), which is awarded by the California Board of Behavioral Science (BBS). School Psychology students completing the MS in Counseling Option requirements are eligible to apply for the National Certification in School Psychology (NCSP), which is awarded by the National Association of School Psychologists (NASP) and are nationally recognized after completing two years in the field.

Admission Requirements

- Bachelor's degree from an accredited university
- Department Application, including the following:
 - A personal statement about professional goals
 - Three letters of reference
 - GRE (verbal reasoning, quantitative reasoning, and analytical writing)
 - *For School Counseling and School Psychology candidates only:* Basic Skills Requirement (http://www.csueastbay.edu/ceas/departments/epsy/prog_spmft.html#reqs)
- University Application
- Cumulative undergraduate GPA of 3.0

Prerequisites

These courses, or equivalencies at other universities, are not included in the total required for the MS in Counseling:

- Elements of Probability and Statistics
- Abnormal Psychology
- Choose one of the following:
 - Developmental Psychology
 - Theories of Learning
 - Personality Theory or Development
- *For School Psychology candidates only:*
 - Theories of Learning
 - Psychological Tests

To earn the MS in Counseling degree, candidates must do the following:

- Complete all coursework toward the degree with a grade of B or higher
- Complete the University Writing Skills Test (WST) requirement
- Advancement to Candidacy
- Receive satisfactory evaluations from fieldwork and University supervisors/professors
- Demonstrate Ethical and Professional Program Expectations and Dispositions
- Complete required field-based practicum hours
- *For School Counseling and School Psychology candidates only:*
 - Pass the PRAXIS exam

Required Core Courses (40-units)

The M.S. degree in Counseling requires 72 units organized according to university requirements (see the Graduate/Post-Baccalaureate Admission and Degree Information chapter in this catalog). Requirements

are established to ensure that each degree candidate obtains adequate breadth in subject matter, field experiences, and research.

Core courses for the MS in Counseling (i.e., these courses must be taken in addition to courses specific to each option).

Note: Additional course work, beyond that required for the masters, may be required for professional licensure and/or credentials.

- EPSY 6023 - Research in Applied Behavioral Sciences *Units: 4*
- EPSY 6302 - Individual Development *Units: 4*
- EPSY 6670 - Field Work Group Supervision I *Units: 3*
- EPSY 6671 - Field Work Group Supervision II *Units: 3*
- EPSY 6672 - Field Work Group Supervision III *Units: 3*
- EPSY 6701 - Appraisal Procedures: Standardized *Units: 4*
- *OR* EPSY 6720 - Theory and Assessment of Cognition *Units: 4*
- EPSY 6750 - Foundations of Counseling *Units: 4*
- EPSY 6752 - Cross-Cultural Counseling *Units: 4*
- EPSY 6762 - Group Procedures and Facilitation *Units: 4*
- EPSY 6775 - Community Mental Health Counseling *Units: 4*
- EPSY 6785 - Law and Ethics in Counseling *Units: 3*

Elective Courses (0-13 units)

Elective courses to be determined by advisor/coordinator. Total number of elective units for the masters depend on the degree option.

Note: Additional course work, beyond that required for the masters, may be required for professional licensure and/or credentials.

Capstone Requirements (0-9 units)

Students must successfully complete either a University Thesis, a Departmental Thesis, a Project, or a Comprehensive Examination. See your advisor/coordinator to determine the best capstone for your goals.

Option Requirements (19-22 units)

To earn the MS in Counseling at CSU East Bay, students must enroll in one of the three options listed below:

- Counseling, Clinical Child/School Psychology Option, M.S.
- Counseling, Marriage and Family Therapy Option, M.S.
- Counseling, School Counseling Option, M.S.

School Counseling Option (20 units)

Faculty: Dr. Rolla E. Lewis, Dr. Janet Logan, and Dr. Angela Tang (Coordinator)

Required Courses for the Option

- EPSY 6669 - Seminar in Mental Health Consultation *Units: 3*
- EPSY 6711 - Career-Life Planning *Units: 4*
- EPSY 6764 - Intervention Strategies for Systems and Organizational Change
Units: 4
- EPSY 6766 - Personal/Social Counseling in Schools *Units: 2*
- EPSY 6767 - Academic Counseling in Schools *Units: 3*
- EPSY 6768 - Foundations of School Counseling *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Special Education, Mild-Moderate Disabilities Option, M.S.

Department & Faculty Information

Special Education Programs of Study

Faculty: Jacki L. Anderson and Ann T. Halvorsen (Co-coordinators, Moderate-Severe Disabilities); Linda Smetana (Coordinator, Mild-Moderate Disabilities)

The Special Education program prepares their graduates for careers in direct teaching and for leadership roles in Special Education. Programs are offered which lead to:

- Master of Science Degree in Special Education, Mild-Moderate Disabilities Option, M.S.
- Master of Science Degree in Special Education, Moderate-Severe Disabilities Option, M.S.
- Preliminary Education Specialist Credential: Mild-Moderate Disabilities
- Preliminary Education Specialist Credential: Moderate-Severe Disabilities

The programs' emphasis is providing students with a wide range of practical methods for enhancing the lives of individuals with exceptional needs. To this end, coursework is taught by University faculty and successful practitioners in the field. The programs provide extensive supervised fieldwork in settings that are appropriate to each student's professional goals.

Special Education (M.S.) 46-50 units

The M.S. in Special Education may be obtained in one of two paths, either:

(a) in conjunction with the Special Education credentials, or

(b) through a combination of the Special Education credential and research coursework listed below.

Candidates who want to pursue only the master's degree without Specialist teaching credentials will follow the program outlines below. These candidates may obtain an M.S. degree in Special Education with an Option in either Mild-Moderate or Moderate-Severe Disabilities.

The master's degree requirements include both coursework and fieldwork, as well as research and advanced study, including completion of a culminating Department (Mild-Moderate Disabilities Option) or University (Moderate- Severe Disabilities Option) thesis.

Applicants will apply for admission to the Department of Educational Psychology: Special Education, and will follow the departmental as well as the university application procedures.

Prerequisite Course

Units not included in degree totals.

- EPSY 5021 - Introduction to Educating all Students in Diverse Classrooms *Units: 4*

Core Electives (8 units)

Choose two of the following:

- EPSY 6124 - Augmentative Communication and Assistive Technology *Units: 4*
- EPSY 6130 - Service Learning and Positive School Climate *Units: 4*
- EPSY 6141 - Social Networks and Communication for Students with Autism Spectrum Disorders (ASD) and Other Disabilities *Units: 4*
- EPSY 6145 - Advanced Studies in Adolescent Learning and Secondary Curriculum *Units: 4*

Mild-Moderate Disabilities Option (42 units)

- EPSY 6023 - Research in Applied Behavioral Sciences *Units: 4*
- EPSY 6127 - Instruction and Behavioral Support: Mild-Moderate Disabilities *Units: 4*
- EPSY 6129 - Advanced Study in Collaborative Service Delivery, Education, and Transition *Units: 4*
- EPSY 6131 - Assessments: Students with Mild-Moderate Disabilities *Units: 4*
- EPSY 6133 - Curriculum: Students with Mild-Moderate Disabilities *Units: 4*
- EPSY 6134 - Advanced Curriculum and Instruction: Mild-Moderate Disabilities *Units: 4*
- EPSY 6143 - Positive Behavior Supports *Units: 4*
- EPSY 6206 - Advanced Studies in the Education of Students with Mild-Moderate Disabilities: Research and Professional Practice *Units: 4*
- EPSY 6860 - Advanced Fieldwork I *Units: 2-4 (students in this program are required to take as a 4-units course)*

or EPSY 6862 Advanced Fieldwork II (*students in this program are required to take as a 4-units course*).

Mild-Moderate Capstone

(*students in this option are required to take this course twice for a total of 6 units*)

- EPSY 6021 - Thesis-Project Seminar (Mild-Moderate Disabilities Option) *Units: 3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Special Education, Moderate-Severe Disabilities Option, M.S.

Department & Faculty Information

Special Education Programs of Study

Faculty: Jacki L. Anderson and Ann T. Halvorsen (Co-coordinators, Moderate-Severe Disabilities); Linda Smetana (Coordinator, Mild-Moderate Disabilities)

The Special Education program prepares their graduates for careers in direct teaching and for leadership roles in Special Education. Programs are offered which lead to:

- Master of Science Degree in Special Education, Mild-Moderate Disabilities Option, M.S.
- Master of Science Degree in Special Education, Moderate-Severe Disabilities Option, M.S.
- Preliminary Education Specialist Credential: Mild-Moderate Disabilities
- Preliminary Education Specialist Credential: Moderate-Severe Disabilities

The programs' emphasis is providing students with a wide range of practical methods for enhancing the lives of individuals with exceptional needs. To this end, coursework is taught by University faculty and successful practitioners in the field. The programs provide extensive supervised fieldwork in settings that are appropriate to each student's professional goals.

Special Education (M.S.) 46-50 units

The M.S. in Special Education may be obtained in one of two paths, either:

- (a) in conjunction with the Special Education credentials, or
- (b) through a combination of the Special Education credential and research coursework listed below.

Candidates who want to pursue only the master's degree without Specialist teaching credentials will follow the program outlines below. These candidates may obtain an M.S. degree in Special Education with an Option in either Mild-Moderate or Moderate-Severe Disabilities.

The master's degree requirements include both coursework and fieldwork, as well as research and advanced study, including completion of a culminating Department (Mild-Moderate Disabilities Option) or University (Moderate- Severe Disabilities Option) thesis.

Applicants will apply for admission to the Department of Educational Psychology: Special Education, and will follow the departmental as well as the university application procedures.

Prerequisite Course

Units not included in degree totals.

- EPSY 5021 - Introduction to Educating all Students in Diverse Classrooms *Units: 4*

Core Electives (8 units)

Choose two of the following:

- EPSY 6124 - Augmentative Communication and Assistive Technology *Units: 4*
- EPSY 6130 - Service Learning and Positive School Climate *Units: 4*
- EPSY 6141 - Social Networks and Communication for Students with Autism Spectrum Disorders (ASD) and Other Disabilities *Units: 4*
- EPSY 6145 - Advanced Studies in Adolescent Learning and Secondary Curriculum *Units: 4*

Moderate-Severe Disabilities Option (38 units)

- EPSY 6023 - Research in Applied Behavioral Sciences *Units: 4*
- EPSY 6129 - Advanced Study in Collaborative Service Delivery, Education, and Transition *Units: 4*
- EPSY 6137 - Instructional and Behavioral Support: Moderate-Severe Disabilities *Units: 4*
- EPSY 6140 - Curriculum: Students with Moderate-Severe Disabilities *Units: 4*
- EPSY 6142 - Assessment: Students with Moderate-Severe Disabilities *Units: 4*
- EPSY 6143 - Positive Behavior Supports *Units: 4*
- EPSY 6207 - Advanced Studies in the Education of Students with Moderate to Severe Disabilities: Research and Professional Practice *Units: 4*
- EPSY 6860 - Advanced Fieldwork I *Units: 2-4 (students in this program are required to take as a 4-unit course)*

Moderate-Severe Capstone

(students in this option are required to take this course for 6 units)

- EPSY 6910 - University Thesis *Units: 1-9*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Certificate (Graduate) Program

Early Childhood Special Education (Added Authorization)

Department & Faculty Information

This program is offered through Continuing Education only.

Admission Requirements

1. Bachelor's Degree
2. Certificate of Clearance or valid California Education Specialist Teaching Credential
3. Valid California Education Specialist Credential with one of the following authorizations: Mild/Moderate Disabilities, Moderate/Severe Disabilities, Deaf-and-Hard of Hearing, Physical and Health Impairments, Visual Impairments;
OR concurrent enrollment in a program leading to any of those credentials.
4. Passing scores on the California Basic Education Skills Test (CBEST)
5. Evidence of negative tuberculosis test

Curricular Requirements

- EPSY 6550 - Young Children with Special Needs *Units: 4*
- EPSY 6551 - Family systems and Cultural Competence in ECSE *Units: 4*
- EPSY 6552 - Assessment and Intervention Planning for Young Children with Special Needs *Units: 4*
- EPSY 6553 - Curriculum and Instruction n ECSE *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Department of English

The Department office is located in the Music and Business building, Room 2579

Office Hours: 9:00 a.m. - 6:30 p.m., Monday through Thursday; and 9:00 a.m. - 3:00 p.m., Fridays

Dept Phone: 510.885.3151

Faculty

Professors Emeriti

Jacqueline Doyle, Ph.D. Cornell University

E.J. Murphy, Ph.D. University of Illinois

Professors

Eileen A. Barrett, Ph.D. Boston College

Debra Barrett-Graves, Ph.D. University of Kentucky

Dennis M. Chester, Ph.D. University of Washington

Susan A. Gubernat, M.F.A. University of Iowa

Stephen D. Gutierrez, M.F.A. Cornell University

Sarah E. Nielsen (Chair), Ph.D. University of California, Davis

Ke Zou, Ph.D. University of Southern California

Associate Professors

Eve M. Lynch, Ph.D. University of California, Davis

Margaret Tomlinson-Rustick, Ph.D. Washington State University

Assistant Professors

Ryan Heryford, Ph.D. University of California, San Diego

Douglas Taylor, Ph.D. University of North Carolina, Chapel Hill

Lecturers

Cynthia Andrzejczyk

Sartaz Aziz

Scott Bentley

Sally Baxter

Mary D'Alleva

Ingrid Hufgard

Dale Ireland

Aaron Jason

Rochelle Nameroff

Michael Rovasio

Marina Sapozhnikov

Jeff Scott

Paul White

Graduate Coordinators: Eileen Bareet and Steve Gutierrez

Graduate TESOL Coordinator: Ke Zou

Director of Creative Writing: Stephen D. Gutierrez

Composition Coordinator: Margaret Tomlinson-Rustick

Department Statement

The Department of English offers its diverse student population a rich array of courses in literature, language, creative writing, and composition. The department attempts to foster in its students an understanding and appreciation of 1) the major works of British and American literature, including works by and about ethnic and cultural minorities and women, 2) the history and structure of the English language in all its variety, and 3) the aims and processes of writing, both creative and critical. In all its courses, the department attempts to help its students develop the advanced skills in reading, writing, and critical thinking necessary for successful careers in teaching, publishing, law, administration, and business.

TESOL

Graduate Programs
Overview

Literary Studies &
Creative Writing

Distinguished Writers
Series

School of Global Humanities and Cultural Studies

Bachelor of Arts

English, Creative Writing Option, B.A.

Department & Faculty Information

English (B.A.) 180 units

Program Description

Contrary to popular opinion, most students who major in English do not become public school teachers, although many do choose a career in teaching. Rather, English majors go into all areas of business and government and wherever else the ability to read and write the English language effectively leads to opportunities for advancement and success. The English major is a widely recognized and respected preparation for graduate degrees in law, medicine, social services, and business. It also provides an excellent foundation for free-lance and broadcast journalism. The academic backgrounds of management personnel in private and public organizations attest to how appropriate the English major is for those who pursue careers in management and administration.

Student Learning Outcomes

Students graduating with a B.A. in English from Cal State East Bay will be able to:

1. analyze and interpret various kinds of texts;
2. express their understandings and interpretations in clear and cogent prose;
3. discuss at least one theoretical perspective about language and/or literature
4. demonstrate knowledge of key English language texts in their options: Literature, Creative Writing, Language and Discourse, and Interdisciplinary Language, Literature, and Writing Studies;
5. demonstrate facility with conducting research in traditional/nontraditional ways, including library research, the Internet, and data collection and analysis.

Career Opportunities

- Advertising Copy Writer

- Author/Critic
- Bookstore Manager
- Continuity Editor
- Corporate Communications Director
- Foreign Service Officer
- Freelance Journalist/Writer
- Greeting Card Editor/Writer
- Lawyer
- Librarian
- Media Specialist
- Newspaper Reporter
- Public Information Officer
- Publication Editor
- Publicity Director
- Publishing Agent
- Radio/TV Agent
- Script Writer
- Teacher/Professor
- Technical Writer

Preparation

For Advanced Placement course equivalencies, see Registration.

Major Requirements (B.A.) 72-84 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 40-52 units;
- the Creative Writing Option consists of 32 units;
- the Interdisciplinary Language, Literature, and Writing Studies Option consists of 32 units.
- the Language and Discourse Option consists of 32 units;
- the Literature Option consists of 32 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Prerequisites

Though not listed as core requirements in the major, the following courses are prerequisites for core classes and campus graduation requirements:

- ENGL 1001 - College Writing I *Units: 4*
- ENGL 1002 - College Writing II *Units: 4*

Core Curriculum (40 units)

Introductory Courses

Choose two of the following three courses for 8 units:

- ENGL 2030 - Introduction to Critical Writing on Prose Fiction *Units: 4*
- ENGL 2040 - Introduction to Critical Writing on Poetry *Units: 4*
- ENGL 2050 - Introduction to Critical Writing on Drama *Units: 4*

Upper Division Courses

And all of the following:

- ENGL 3010 - Modern English Grammar *Units: 4*
- ENGL 3020 - Advanced Expository Writing *Units: 4*
- ENGL 3080 - Introduction to Critical Theory of Literature *Units: 4*
- ENGL 4251 - Shakespeare *Units: 4*
- ENGL 4890 - Senior Seminar in English *Units: 4*
- ONE upper division English course in British or American literature before 1900 *Units: 4*
- ONE upper division English course in Ethnic-American or Global literatures after 1900 *Units: 4*
- ONE English lower- or upper-division Elective (excluding ENGL 1001, 1002, 3000, 3001, 3003) *Units: 4*

Foreign Language Requirement (0-12 units)

Majors must complete, with grades of C-/CR or better, one year of a college-level foreign language or must pass a translation test administered by the English Department.

Option Requirements

The Department of English offers several options for degree candidates. Majors must choose one of the following options:

- English, Creative Writing Option, B.A.
- English, Interdisciplinary Language, Literature, and Writing Studies Option, B.A.
- English, Language and Discourse Option, B.A.
- English, Literature Option, B.A.

Creative Writing Option (32 units)

Required courses to fulfill the option:

20 units:

- ENGL 2070 - Beginning Workshop in Fiction *Units: 4*
- ENGL 2075 - Beginning Workshop in Poetry *Units: 4*
- TWO upper division English courses in literature, language, or writing *Units: 8*
- ONE upper division English course in the literature of the 20th or 21st centuries *Units: 4*

12 units:

Choose 12 units from the following:

- ENGL 3070 - Intermediate Workshop in Fiction *Units: 4 (May be repeated 2x for 8 units)*
- ENGL 3071 - Writing Women's Lives: A Workshop *Units: 4*
- ENGL 4070 - Advanced Workshop in Fiction *Units: 4*
- ENGL 4075 - Advanced Workshop in Poetry *Units: 4 (May be repeated 3x for 12 units)*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

English, Interdisciplinary Language, Literature, and Writing Studies Option, B.A.

Department & Faculty Information

English (B.A.) 180 units

Program Description

Contrary to popular opinion, most students who major in English do not become public school teachers, although many do choose a career in teaching. Rather, English majors go into all areas of business and government and wherever else the ability to read and write the English language effectively leads to opportunities for advancement and success. The English major is a widely recognized and respected preparation for graduate degrees in law, medicine, social services, and business. It also provides an excellent foundation for free-lance and broadcast journalism. The academic backgrounds of management personnel in private and public organizations attest to how appropriate the English major is for those who pursue careers in management and administration.

Student Learning Outcomes

Students graduating with a B.A. in English from Cal State East Bay will be able to:

1. analyze and interpret various kinds of texts;
2. express their understandings and interpretations in clear and cogent prose;
3. discuss at least one theoretical perspective about language and/or literature
4. demonstrate knowledge of key English language texts in their options: Literature, Creative Writing, Language and Discourse, and Interdisciplinary Language, Literature, and Writing Studies;
5. demonstrate facility with conducting research in traditional/nontraditional ways, including library research, the Internet, and data collection and analysis.

Career Opportunities

- Advertising Copy Writer
- Author/Critic

- Bookstore Manager
- Continuity Editor
- Corporate Communications Director
- Foreign Service Officer
- Freelance Journalist/Writer
- Greeting Card Editor/Writer
- Lawyer
- Librarian
- Media Specialist
- Newspaper Reporter
- Public Information Officer
- Publication Editor
- Publicity Director
- Publishing Agent
- Radio/TV Agent
- Script Writer
- Teacher/Professor
- Technical Writer

Preparation

For Advanced Placement course equivalencies, see Registration.

Major Requirements (B.A.) 72-84 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 40-52 units;
 - the Creative Writing Option consists of 32 units;
 - the Interdisciplinary Language, Literature, and Writing Studies Option consists of 32 units.
 - the Language and Discourse Option consists of 32 units;
 - the Literature Option consists of 32 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Prerequisites

Though not listed as core requirements in the major, the following courses are prerequisites for core classes and campus graduation requirements:

- ENGL 1001 - College Writing I *Units: 4*
- ENGL 1002 - College Writing II *Units: 4*

Core Curriculum (40 units)

Introductory Courses

Choose two of the following three courses for 8 units:

- ENGL 2030 - Introduction to Critical Writing on Prose Fiction *Units: 4*

- ENGL 2040 - Introduction to Critical Writing on Poetry *Units: 4*
- ENGL 2050 - Introduction to Critical Writing on Drama *Units: 4*

Upper Division Courses

And all of the following:

- ENGL 3010 - Modern English Grammar *Units: 4*
- ENGL 3020 - Advanced Expository Writing *Units: 4*
- ENGL 3080 - Introduction to Critical Theory of Literature *Units: 4*
- ENGL 4251 - Shakespeare *Units: 4*
- ENGL 4890 - Senior Seminar in English *Units: 4*
- ONE upper division English course in British or American literature before 1900 *Units: 4*
- ONE upper division English course in Ethnic-American or Global literatures after 1900 *Units: 4*
- ONE English lower- or upper-division Elective (excluding ENGL 1001, 1002, 3000, 3001, 3003) *Units: 4*

Foreign Language Requirement (0-12 units)

Majors must complete, with grades of C-/CR or better, one year of a college-level foreign language or must pass a translation test administered by the English Department.

Option Requirements

The Department of English offers several options for degree candidates. Majors must choose one of the following options:

- English, Creative Writing Option, B.A.
- English, Interdisciplinary Language, Literature, and Writing Studies Option, B.A.
- English, Language and Discourse Option, B.A.
- English, Literature Option, B.A.

Interdisciplinary Language, Literature, and Writing Studies Option (32 units)

In formal consultation with two professors: one from the English Department; and, one from a department other than English - and with the approval of the Chair of the English department, students may propose a program of **32 upper-division units** in literature, language, rhetoric, or writing drawn from various departments in the university. At least 16 of these units must be in English.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

English, Language and Discourse Option, B.A.

Department & Faculty Information

English (B.A.) 180 units

Program Description

Contrary to popular opinion, most students who major in English do not become public school teachers, although many do choose a career in teaching. Rather, English majors go into all areas of business and government and wherever else the ability to read and write the English language effectively leads to opportunities for advancement and success. The English major is a widely recognized and respected preparation for graduate degrees in law, medicine, social services, and business. It also provides an excellent foundation for free-lance and broadcast journalism. The academic backgrounds of management personnel in private and public organizations attest to how appropriate the English major is for those who pursue careers in management and administration.

Student Learning Outcomes

Students graduating with a B.A. in English from Cal State East Bay will be able to:

1. analyze and interpret various kinds of texts;
2. express their understandings and interpretations in clear and cogent prose;
3. discuss at least one theoretical perspective about language and/or literature
4. demonstrate knowledge of key English language texts in their options: Literature, Creative Writing, Language and Discourse, and Interdisciplinary Language, Literature, and Writing Studies;
5. demonstrate facility with conducting research in traditional/nontraditional ways, including library research, the Internet, and data collection and analysis.

Career Opportunities

- Advertising Copy Writer
- Author/Critic
- Bookstore Manager
- Continuity Editor
- Corporate Communications Director
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- Media Specialist
- Newspaper Reporter
- Public Information Officer
- Publication Editor
- Publicity Director

- Publishing Agent
- Radio/TV Agent
- Script Writer
- Teacher/Professor
- Technical Writer

Preparation

For Advanced Placement course equivalencies, see Registration.

Major Requirements (B.A.) 72-84 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 40-52 units;
- the Creative Writing Option consists of 32 units;
- the Interdisciplinary Language, Literature, and Writing Studies Option consists of 32 units.
- the Language and Discourse Option consists of 32 units;
- the Literature Option consists of 32 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Prerequisites

Though not listed as core requirements in the major, the following courses are prerequisites for core classes and campus graduation requirements:

- ENGL 1001 - College Writing I *Units: 4*
- ENGL 1002 - College Writing II *Units: 4*

Core Curriculum (40 units)

Introductory Courses

Choose two of the following three courses for 8 units:

- ENGL 2030 - Introduction to Critical Writing on Prose Fiction *Units: 4*
- ENGL 2040 - Introduction to Critical Writing on Poetry *Units: 4*
- ENGL 2050 - Introduction to Critical Writing on Drama *Units: 4*

Upper Division Courses

And all of the following:

- ENGL 3010 - Modern English Grammar *Units: 4*
- ENGL 3020 - Advanced Expository Writing *Units: 4*
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- ENGL 4251 - Shakespeare *Units: 4*
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- ONE upper division English course in British or American literature before 1900 *Units: 4*
- ONE upper division English course in Ethnic-American or Global literatures after 1900 *Units: 4*

- ONE English lower- or upper-division Elective (excluding ENGL 1001, 1002 , 3000, 3001, 3003) Units: 4

Foreign Language Requirement (0-12 units)

Majors must complete, with grades of C-/CR or better, one year of a college-level foreign language or must pass a translation test administered by the English Department.

Option Requirements

The Department of English offers several options for degree candidates. Majors must choose one of the following options:

- English, Creative Writing Option, B.A.
- English, Interdisciplinary Language, Literature, and Writing Studies Option, B.A.
- English, Language and Discourse Option, B.A.
- English, Literature Option, B.A.

Language and Discourse Option (32 units)

Required courses to fulfill the option:

24 units

Complete the following:

- ENGL 3005 - Study of Language *Units: 4*
or
- ENGL 3010 - Modern English Grammar *Units: 4* (whichever one was not chosen for Core Curriculum above)
- ENGL 3015 - Introduction to Phonology *Units: 4*
- ENGL 3040 - Linguistic History of the English Language *Units: 4*
- ENGL 4010 - Current Theories in Formal Grammar *Units: 4*
- ENGL 4040 - Language in the U.S.A. *Units: 4*
- ONE upper division course covering a single aspect (or a group of closely related aspects) of the English language, with consent of an English advisor *Units: 4*

8 units

Choose two upper division English electives for 8 units (excluding ENGL 3000, ENGL 3001, ENGL 3003). Courses in language and discourse from departments other than English may be used for this option, with the approval of the Chair of the English department. Especially relevant courses might include:

- ANTH 3800 Language and Culture
- ANTH 3801 Language in the Modern World
- COMM courses in rhetoric and communication theory
- PHIL 3322 Philosophy of Language
- PSYC 4740 Psycholinguistics

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

English, Literature Option, B.A.

Department & Faculty Information

English (B.A.) 180 units

Program Description

Contrary to popular opinion, most students who major in English do not become public school teachers, although many do choose a career in teaching. Rather, English majors go into all areas of business and government and wherever else the ability to read and write the English language effectively leads to opportunities for advancement and success. The English major is a widely recognized and respected preparation for graduate degrees in law, medicine, social services, and business. It also provides an excellent foundation for free-lance and broadcast journalism. The academic backgrounds of management personnel in private and public organizations attest to how appropriate the English major is for those who pursue careers in management and administration.

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2. express their understandings and interpretations in clear and cogent prose;
3. discuss at least one theoretical perspective about language and/or literature
4. demonstrate knowledge of key English language texts in their options: Literature, Creative Writing, Language and Discourse, and Interdisciplinary Language, Literature, and Writing Studies;
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- Author/Critic
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- Radio/TV Agent
- Script Writer
- Teacher/Professor
- Technical Writer

Preparation

For Advanced Placement course equivalencies, see Registration.

Major Requirements (B.A.) 72-84 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 40-52 units;
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- the Language and Discourse Option consists of 32 units;
- the Literature Option consists of 32 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Prerequisites

Though not listed as core requirements in the major, the following courses are prerequisites for core classes and campus graduation requirements:

- ENGL 1001 - College Writing I *Units: 4*
- ENGL 1002 - College Writing II *Units: 4*

Core Curriculum (40 units)

Introductory Courses

Choose two of the following three courses for 8 units:

- ENGL 2030 - Introduction to Critical Writing on Prose Fiction *Units: 4*
- ENGL 2040 - Introduction to Critical Writing on Poetry *Units: 4*
- ENGL 2050 - Introduction to Critical Writing on Drama *Units: 4*

Upper Division Courses

And all of the following:

- ENGL 3010 - Modern English Grammar *Units: 4*
- ENGL 3020 - Advanced Expository Writing *Units: 4*
- ENGL 3080 - Introduction to Critical Theory of Literature *Units: 4*
- ENGL 4251 - Shakespeare *Units: 4*
- ENGL 4890 - Senior Seminar in English *Units: 4*
- ONE upper division English course in British or American literature before 1900 *Units: 4*
- ONE upper division English course in Ethnic-American or Global literatures after 1900 *Units: 4*
- ONE English lower- or upper-division Elective (excluding ENGL 1001, 1002 , 3000, 3001, 3003) *Units: 4*

Foreign Language Requirement (0-12 units)

Majors must complete, with grades of C-/CR or better, one year of a college-level foreign language or must pass a translation test administered by the English Department.

Option Requirements

The Department of English offers several options for degree candidates. Majors must choose one of the following options:

- English, Creative Writing Option, B.A.
- English, Interdisciplinary Language, Literature, and Writing Studies Option, B.A.
- English, Language and Discourse Option, B.A.
- English, Literature Option, B.A.

Literature Option (32 units)

Required courses to fulfill the option:

- ENGL 4151 - Introduction to Chaucer *Units: 4*
or
- ENGL 4260 - Milton *Units: 4*
- THREE upper-division English courses in literature of the 18th and/or 19th centuries (at least one British and at least one American) *Units: 12*
- TWO upper-division English courses in literature of the 20th and/or 21st centuries *Units: 8*
- ONE upper-division English course in Women's or Gay and Lesbian literature *Units: 4*
- ONE upper-division course in Global literatures *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth

requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Arts

English, M.A.

Department & Faculty Information

English (M.A.) 45-48 units

Program Description

The university offers the Master of Arts degree in English. Although there is no separate degree offered in creative writing, it is possible to satisfy the thesis option for the M.A. in English by work in fiction, poetry, or drama. The student seeking a degree must observe the general university requirements stated elsewhere in this catalog as well as the specific departmental requirements stated here. (Note: The M.A. TESOL Program is described below.)

Student Learning Outcomes

Students graduating with an M.A. in English from Cal State East Bay will be able to:

1. analyze and interpret various kinds of texts in clear and cogent prose;
2. discuss several theoretical perspectives about literature or about applied linguistics (e.g., pedagogy, second language learning);
3. demonstrate facility with conducting research in traditional/nontraditional ways, including library research, the Internet, and data collection and analysis.
4. demonstrate the ability to learn independently.

Students graduating with an M.A. in English-T.E.S.O.L. option from Cal State East Bay will be able to:

1. communicate effectively in the profession both orally and in writing;
2. apply information literacy principles in their work as TESOL professionals;
3. draw on knowledge of language ability to shape their instructional choices;
4. use pedagogical content knowledge appropriate for a particular group of language learners;
5. integrate principles of diversity and inclusiveness in their classrooms;
6. select life-long learning strategies to stay current in the profession.

Students completing the M.A. degree in English will demonstrate in-depth knowledge of two areas including British/American literature, and literature or composition theory or creative writing; those in the TESOL option will demonstrate in-depth knowledge of adult ESL pedagogy and the linguistic underpinnings of this enterprise.

Admission for the M.A. in English (Literature, Composition, Creative Writing)

To apply for admission to the Master of Arts program in English, the student must fill out the proper forms obtained from and returned to the Admissions Office. (Contact the Graduate Coordinator for details on additional materials to be sent directly to the English Department.) The Admissions Office will then

send the application to the English Department where it will be accepted or rejected. Also see admission requirements for the TESOL Option.

To be admitted to the M.A. program in English, the student must:

1. hold the B.A. degree from an accredited college or university, with a major in English, and
2. have an undergraduate GPA in English courses of at least 3.0. If the student cannot comply with these requirements, he or she may petition the department by letter for special consideration.

Upon admittance to the graduate program in English, the student should immediately arrange through the English Department Office to consult a graduate adviser on selecting courses and satisfying the department's M.A. Foreign Language Requirement (see "Foreign Language Requirement" in the "Degree Requirements" section).

All students except those who are "Classified or Conditionally Classified Graduate" students in English must have the written permission of an English graduate adviser to enroll in a graduate course in English.

Admission for the M.A. in English: TESOL Option

To be admitted to the M.A. in English with a Teaching English as a Second Language (TESOL) Option, students must hold a relevant baccalaureate degree (English, Linguistics, Speech Communication are obvious examples), with a 3.0 overall GPA.

"Classified Graduate" Status and Advancement to Candidacy

The student is normally admitted to the program in English as a "Conditionally Classified Graduate" student. One condition to his or her being a "Classified Graduate" is that (s)he pass ENGL 6001 with a grade of "A" or "B". Another is that the student must satisfy the University Writing Skills Requirement. There may be other conditions to his or her "Classified Graduate" status if (s)he has been admitted to the program with deficiencies; the student should consult with a graduate adviser to determine whether this is the case. After all conditions have been met, the student will be granted "Classified Graduate" status as a graduate student in English. To Advance to Candidacy for the M.A. in English, the student must satisfy the department's M.A. Foreign Language Requirement and complete 20 quarter-units of graduate coursework (including ENGL 6001) acceptable for the M.A. Also see admission requirements for the TESOL Option. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Foreign Language Requirement

Students must demonstrate a reading knowledge of a foreign language. Students should consult a graduate adviser for details. (American Sign Language may be used for the foreign language requirement, in which case, a year of college-level coursework is required.) **Please note: this requirement does not apply to students in the TESOL option of the M.A. program.**

Applying for Graduation

A student must apply formally to graduate with a master's degree, by submitting a "Candidate for Degree" card during the Add period for the quarter before the one in which (s)he expects to graduate. Also during the quarter before the one in which the student expects to graduate, (s)he must ask the department's Graduate Coordinator to send a "Major Check" sheet to the Graduate Evaluations Office.

English M.A. Options

English offers two methods for completing the English M.A. degree. Choose one (1) of the following:

- English, M.A.
- English, TESOL Option, M.A.

Literature, Composition, Creative Writing Degree Option (48 units)

Students must complete, with a grade point average of 3.0 or better, 48 quarter-units of credit approved by a graduate adviser.

Foreign Language Requirement

Students must demonstrate a reading knowledge of a foreign language. Students should consult a graduate adviser for details. (American Sign Language may be used for the foreign language requirement, in which case, a year of college-level coursework is required.)

Required Course (4 units)

The following introduction course is required:

- ENGL 6001 - Introduction to Graduate Studies *Units: 4*

American and British Literature (16 units)

An additional FOUR 6000-level literature courses are required:

- one (1) in American literature,
- one (1) in British literature,
- two (2) in literature before 1900

Creative Writing, Composition and Linguistics (12 units)

An additional THREE 6000-level English courses are required in one or all of these areas:

- composition studies
- creative writing
- linguistics
- literature

Capstone Requirements (16 units)

The remaining 16 units may include:

- ENGL 6910 - University Thesis *Units: 4* or for those who do not elect to submit an approved thesis, TWO exit examinations in the areas named above are required. Students should consult a graduate adviser for details.

The university thesis is optional. Students may petition to take 1-4 units to write a thesis or equivalent work in fiction, poetry, drama, or non-fiction prose. (**Note: Students who wish to submit a thesis for the degree must register for at least one unit of English 6910.**) Students who elect to submit a thesis must comply with the thesis instructions of the Department of English as well as those in the University Thesis Writing Guide available online at: www.csueastbay.edu/thesiswritingguide. Thesis proposals must be approved by two regular members of the English faculty, one as 'director' and one as 'second reader', before a thesis can be undertaken. Faculty members are not obliged to accept thesis proposals or to direct theses.

Also note: For those who elect to submit an approved thesis, ONE exit examination in a historical period of British and/or American literature or in composition studies is required.

- ENGL 6900 - Independent Study *Units: 1-4 (a maximum of 4 independent study units may be counted for the degree)*
- or an additional 4000-level and/or 6000-level courses (approved by graduate advisor) to complete the 16 units.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

English, TESOL Option, M.A.

Department & Faculty Information

English (M.A.) 45-48 units

Program Description

The university offers the Master of Arts degree in English. Although there is no separate degree offered in creative writing, it is possible to satisfy the thesis option for the M.A. in English by work in fiction, poetry, or drama. The student seeking a degree must observe the general university requirements stated elsewhere in this catalog as well as the specific departmental requirements stated here. (Note: The M.A. TESOL Program is described below.)

Student Learning Outcomes

Students graduating with an M.A. in English from Cal State East Bay will be able to:

1. analyze and interpret various kinds of texts in clear and cogent prose;

2. discuss several theoretical perspectives about literature or about applied linguistics (e.g., pedagogy, second language learning);
3. demonstrate facility with conducting research in traditional/nontraditional ways, including library research, the Internet, and data collection and analysis.
4. demonstrate the ability to learn independently.

Students graduating with an M.A. in English-T.E.S.O.L. option from Cal State East Bay will be able to:

1. communicate effectively in the profession both orally and in writing;
 2. apply information literacy principles in their work as TESOL professionals;
 3. draw on knowledge of language ability to shape their instructional choices;
 4. use pedagogical content knowledge appropriate for a particular group of language learners;
 5. integrate principles of diversity and inclusiveness in their classrooms;
 6. select life-long learning strategies to stay current in the profession.
- Students completing the M.A. degree in English will demonstrate in-depth knowledge of two areas including British/American literature, and literature or composition theory or creative writing; those in the TESOL option will demonstrate in-depth knowledge of adult ESL pedagogy and the linguistic underpinnings of this enterprise.

Admission for the M.A. in English (Literature, Composition, Creative Writing)

To apply for admission to the Master of Arts program in English, the student must fill out the proper forms obtained from and returned to the Admissions Office. (Contact the Graduate Coordinator for details on additional materials to be sent directly to the English Department.) The Admissions Office will then send the application to the English Department where it will be accepted or rejected. Also see admission requirements for the TESOL Option.

To be admitted to the M.A. program in English, the student must:

1. hold the B.A. degree from an accredited college or university, with a major in English, and
 2. have an undergraduate GPA in English courses of at least 3.0. If the student cannot comply with these requirements, he or she may petition the department by letter for special consideration.
- Upon admittance to the graduate program in English, the student should immediately arrange through the English Department Office to consult a graduate adviser on selecting courses and satisfying the department's M.A. Foreign Language Requirement (see "Foreign Language Requirement" in the "Degree Requirements" section).

All students except those who are "Classified or Conditionally Classified Graduate" students in English must have the written permission of an English graduate adviser to enroll in a graduate course in English.

Admission for the M.A. in English: TESOL Option

To be admitted to the M.A. in English with a Teaching English as a Second Language (TESOL) Option, students must hold a relevant baccalaureate degree (English, Linguistics, Speech Communication are obvious examples), with a 3.0 overall GPA.

"Classified Graduate" Status and Advancement to Candidacy

The student is normally admitted to the program in English as a "Conditionally Classified Graduate" student. One condition to his or her being a "Classified Graduate" is that (s)he pass ENGL 6001 with a grade of "A" or "B". Another is that the student must satisfy the University Writing Skills Requirement.

There may be other conditions to his or her "Classified Graduate" status if (s)he has been admitted to the program with deficiencies; the student should consult with a graduate adviser to determine whether this is the case. After all conditions have been met, the student will be granted "Classified Graduate" status as a graduate student in English. To Advance to Candidacy for the M.A. in English, the student must satisfy the department's M.A. Foreign Language Requirement and complete 20 quarter-units of graduate coursework (including ENGL 6001) acceptable for the M.A. Also see admission requirements for the TESOL Option. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Foreign Language Requirement

Students must demonstrate a reading knowledge of a foreign language. Students should consult a graduate adviser for details. (American Sign Language may be used for the foreign language requirement, in which case, a year of college-level coursework is required.) **Please note: this requirement does not apply to students in the TESOL option of the M.A. program.**

Applying for Graduation

A student must apply formally to graduate with a master's degree, by submitting a "Candidate for Degree" card during the Add period for the quarter before the one in which (s)he expects to graduate. Also during the quarter before the one in which the student expects to graduate, (s)he must ask the department's Graduate Coordinator to send a "Major Check" sheet to the Graduate Evaluations Office.

English M.A. Options

English offers two methods for completing the English M.A. degree. Choose one (1) of the following:

- English, M.A.
- English, TESOL Option, M.A.

TESOL Option (45 units)

To be admitted to the M.A. in English with a Teaching English as a Second Language (TESOL) Option, students must hold a relevant baccalaureate degree (English, Linguistics, Speech Communication are obvious examples), with a 3.0 overall GPA, and have completed the following prerequisite courses (40 units) or their equivalents:

- ANTH 3800 - Language and Culture *Units: 4*
- ENGL 3005 - Study of Language *Units: 4*
- ENGL 3010 - Modern English Grammar *Units: 4*
- ENGL 3015 - Introduction to Phonology *Units: 4*
or SPPA 3855 Phonetics Units:4
- ENGL 3020 - Advanced Expository Writing *Units: 4*
- ENGL 3040 - Linguistic History of the English Language *Units: 4*
- ENGL 4040 - Language in the U.S.A. *Units: 4*
- and two courses in modern American or British literature

Required Courses

- ENGL 6501 - Theory and Practice of Teaching ESL I *Units: 4*
- ENGL 6502 - Theory and Practice of Teaching ESL II *Units: 4*
- ENGL 6503 - Second-Language Acquisition *Units: 4*
- ENGL 6504 - Morphology and Lexical Semantics *Units: 4*
- ENGL 6506 - Sociolinguistics *Units: 4*
- ENGL 6507 - Testing and Evaluation for Teaching ESL *Units: 4*
- ENGL 6508 - Supervised Tutoring/Teaching *Units: 4 (times two for 8 units)*
or
ENGL 6508 and ENGL 6510 Pedagogical Grammar *(for a total of 8 units)*
- ENGL 6509 - Computer Assisted Language Learning and Teaching *Units: 4*
- ENGL 6750 - Theory and Practice of Composition *Units: 4*
- ENGL 6909 - Departmental Thesis *Units: 1-5*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Creative Writing Minor

Department & Faculty Information

Any candidate for the bachelor's degree (except for English majors with the Creative Writing option) may also elect to obtain a Minor in Creative Writing.

Minor Requirements (32 units)

After completing ENGL 1001, students must complete 32 quarter units, approved by a Creative Writing advisor.

Required Courses:

- ENGL 2070 - Beginning Workshop in Fiction *Units: 4*
- ENGL 2075 - Beginning Workshop in Poetry *Units: 4*

Select a minimum of 24 quarter units from:

- ENGL 3070 - Intermediate Workshop in Fiction *Units: 4*
- ENGL 3071 - Writing Women's Lives: A Workshop *Units: 4*
- ENGL 4070 - Advanced Workshop in Fiction *Units: 4*
- ENGL 4075 - Advanced Workshop in Poetry *Units: 4*
- ENGL 4900 - Independent Study *Units: 1-4*
- Upper division Modern American or British literature, or genre courses *Units: 4-8*

Note:

Creative writing courses may be repeated for credit. See course descriptions for limitations.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

English Minor

Department & Faculty Information

Minor Requirements (32 units)

The minor in English consists of 32 units, excluding ENGL 1001, ENGL 1002, ENGL 3000, ENGL 3001, and ENGL 3003 approved by an English Department adviser.

At least one course in writing beyond the freshman level

After completing ENGL 1001, choose from the following and apply units to either lower or upper division units below:

- ENGL 2030 - Introduction to Critical Writing on Prose Fiction *Units: 4*
- ENGL 2040 - Introduction to Critical Writing on Poetry *Units: 4*
- ENGL 2070 - Beginning Workshop in Fiction *Units: 4*
- ENGL 3020 - Advanced Expository Writing *Units: 4*
- ENGL 3070 - Intermediate Workshop in Fiction *Units: 4*
- ENGL 4070 - Advanced Workshop in Fiction *Units: 4*
- ENGL 4075 - Advanced Workshop in Poetry *Units: 4*

English courses

excluding ENGL 1001 and ENGL 1002

- Lower Division *Units: 0-12*
- Upper Division *Units: 20-32*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Ethnic Studies

The Department Office location is on the 4th Floor of the Meiklejohn Hall building, Room 4094

Office Hours: 9:00 a.m. - 6:30 p.m. M & Th, T & W 8:00 a.m.-5:00 p.m., Closed Fridays

Dept Phone: 510.885.3255

Faculty

Professor Emerita

Colleen V. Fong, Ph.D. University of Oregon

Professors

Nicholas Baham, III, Ph.D. Indiana University, Bloomington

Luz Calvo (Ethnic Studies), Ph.D. University of California, Santa Cruz

Carlos Salomon (Chair), Ph.D. University of New Mexico

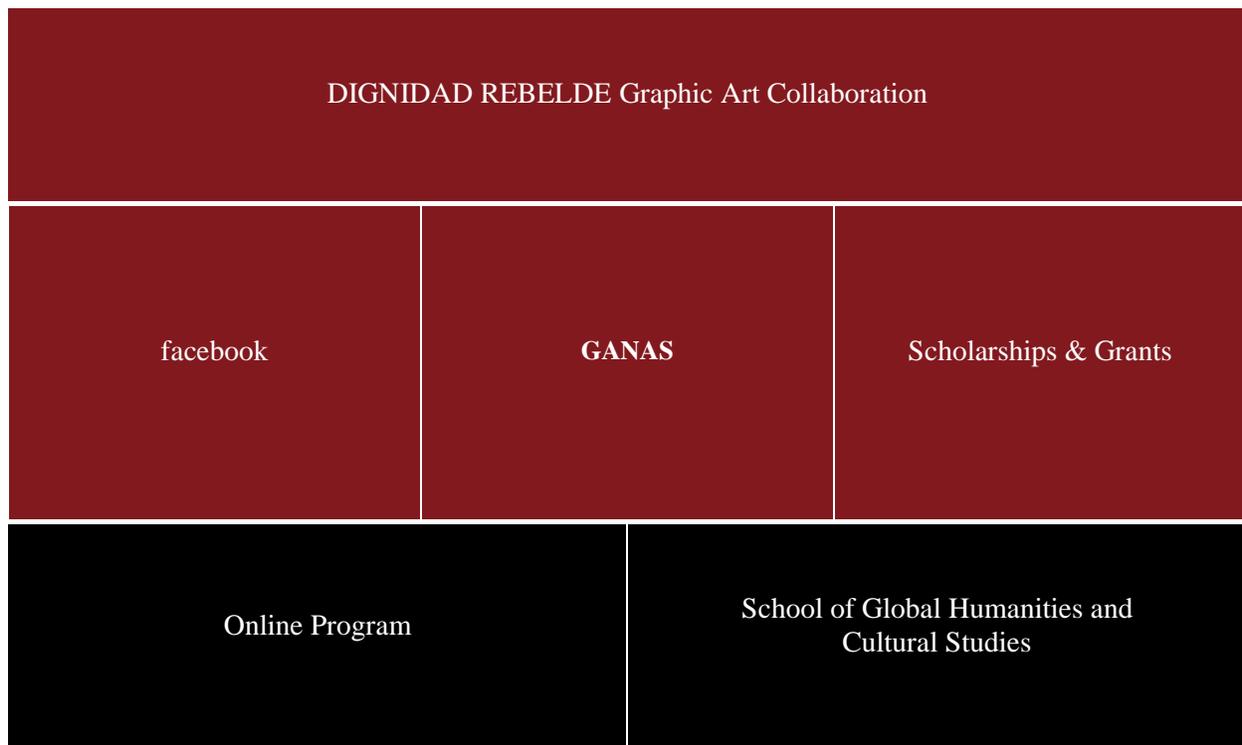
Associate Professor

Enrique Salmon, Ph. D. Arizona State University

Director: Carlos Salomon

Mission Statement

The mission of the Department of Ethnic Studies is to provide an academically rigorous program that substantively contributes to the University's public commitment to provide a multicultural learning experience. Our comparative and interdisciplinary program covers five core areas: African American Studies; American Indian Studies; Asian American Studies; Latino/a and Latin American Studies; and Gender/Sexualities in Communities of Color. In our courses, we teach students to analyze social relations of race, class, gender, and sexuality; develop nuanced understandings of social justice; and act as socially responsible global citizens.



Bachelor of Arts

Ethnic Studies, African American Studies Option, B.A.

Department & Faculty Information

Ethnic Studies (B.A.) 180 units

Program Description

The Department of Ethnic Studies is central to the university's commitment "to educational excellence for a diverse society." It offers a major, minors, and courses that are interdisciplinary in nature and provide a

holistic approach to the study of the United States' multiracial, multicultural, and multigender immigrant society. The department's faculty provide areas of study that integrate social science and literary theory, as well as anthropological and sociological concepts within a historical and humanistic perspective. The underlying goal of Ethnic Studies is to provide a better understanding of diversity in American culture and thought.

The Ethnic Studies major consists of a core of Ethnic Studies courses, support courses in other departments in the university, and Options in Ethnic Studies, African American Studies Option, B.A., Ethnic Studies, Asian American Studies Option, B.A., Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A., Ethnic Studies, Latino/a and Latin American Studies Option, B.A., and Ethnic Studies, American Indian Studies Option, B.A. The curriculum is multidisciplinary as well as interdisciplinary. The major helps the student qualify for graduate work in social sciences, law, and humanities, and for work in municipal, state, and federal government. Of equal importance are the advantages the major provides to work in community service organizations concerned with opportunities and problems of various ethnic and racial groups.

Student Learning Outcomes

Students graduating with a B.A. in Ethnic Studies from Cal State East Bay will be able to:

Summarize the legacies of contact, conquest, and resistance to racial oppression in domestic and transnational frames by defining and explaining key concepts such as colonialism, oppression, slavery, genocide, racialization, class, structural racism, sexism, homophobia, anti-racism, solidarity, whiteness, sustainability, and privilege.

Understand and apply critical frameworks of Ethnic Studies, including decolonizing methodology, intersectionality, resiliency theory, structural analysis, women of color feminism, and cultural analysis.

Recognize and explain the complexity and heterogeneity of racialized groups in the US, including intra-group differences related to gender, class, region, sexuality, generation, immigration status, language fluency and so forth.

Identify and critique essentialist paradigms.

Participate in community-based or service-learning projects overseen by Ethnic Studies faculty that link the critical frameworks and key concepts of Ethnic Studies with experiential learning.

Engage in critical reflection about social justice rooted in community-based experiences

Career Opportunities

- Teacher
- Attorney
- Diversity Specialist
- Journalist
- Public/ International Relations Specialist
- Government Service
- Professor
- Researcher
- Writer

Major Requirements (B.A.) 60 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 40 units;
- the African American Studies Option consists of 20 units;
- the American Indian Studies Option consists of 20 units.
- the Asian American Studies Option consists of 20 units;
- the Genders and Sexualities in Communities of Color Option consists of 20 units;
- the Latino/a and Latin American Studies Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core Courses (4 units)

One course selected from the following:

- ES 1001 - Introduction to Ethnic Studies *Units: 4*
- ES 1005 - Viewing Diversity *Units: 4*
- ES 2200 - Introduction to Latino/a and Latin American Studies *Units: 4*
- ES 2400 - Introduction to American Indian Studies *Units: 4*
- ES 2500 - Introduction to Asian American Studies *Units: 4*
- ES 2700 - Introduction to Genders and Sexualities in Communities of Color *Units: 4*

Upper Division Core Courses (12 units)

- ES 3000 - Ethnic Writers *Units: 4*
- ES 3110 - Racism in America I *Units: 4*
- ES 3889 - Engaging Communities of Color *Units: 4*

Elective Courses (24 units)

Students may choose any of six (6) 4-unit courses from any of the options not selected for the primary option in consultation with an advisor.

Option Requirements

Choose one of the following options. Choose five courses in the option's area of study in consultation with an advisor. [One course from another department (4 units) can be chosen in consultation with an advisor. The course should be selected from a recommended list of courses that will be kept in the Ethnic Studies department.]

- Ethnic Studies, African American Studies Option, B.A.
- Ethnic Studies, American Indian Studies Option, B.A.
- Ethnic Studies, Asian American Studies Option, B.A.
- Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A.

- Ethnic Studies, Latino/a and Latin American Studies Option, B.A.

African American Studies Option (20 units)

Choose five courses (20 units) in the option's area of study in consultation with an advisor.

- ES 1022 - African Americans and Popular Culture *Units: 4*
- ES 2175 - Hip Hop Nation *Units: 4*
- ES 2300 - The Black Cinematic Tradition *Units: 4*
- ES 3105 - African American Identity *Units: 4*
- ES 3120 - The Civil Rights Movement *Units: 4*
- ES 3130 - Slavery in the Americas *Units: 4*
- ES 3146 - Jazz on Film *Units: 4*
- ES 3165 - African American Sexuality *Units: 4*
- ES 3190 - Internationalist Worldview of Malcolm X *Units: 4*
- ES 3230 - Oral Traditions *Units: 4*
- ES 3303 - Contemporary African American Women Writers *Units: 4*
- ES 3434 - Mixed Race Identities *Units: 4*
- ES 3700 - Special Topics in Ethnic Studies *Units: 4*
- ES 3720 - James Baldwin *Units: 4*
- ES 3999 - Issues in Ethnic Studies *Units: 4*
- ES 4900 - Independent Study *Units: 4*
- ENGL 3691 - Black Literature I *Units: 4*
or cross-listed ES 3691.
- ENGL 3692 - Black Literature II *Units: 4*
- SOC 3415 - Sociology of the African American Family *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Ethnic Studies, American Indian Studies Option, B.A.

Department & Faculty Information

Ethnic Studies (B.A.) 180 units

Program Description

The Department of Ethnic Studies is central to the university's commitment "to educational excellence for a diverse society." It offers a major, minors, and courses that are interdisciplinary in nature and provide a holistic approach to the study of the United States' multiracial, multicultural, and multigender immigrant society. The department's faculty provide areas of study that integrate social science and literary theory, as well as anthropological and sociological concepts within a historical and humanistic perspective. The underlying goal of Ethnic Studies is to provide a better understanding of diversity in American culture and thought.

The Ethnic Studies major consists of a core of Ethnic Studies courses, support courses in other departments in the university, and Options in Ethnic Studies, African American Studies Option, B.A., Ethnic Studies, Asian American Studies Option, B.A., Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A., Ethnic Studies, Latino/a and Latin American Studies Option, B.A., and Ethnic Studies, American Indian Studies Option, B.A. The curriculum is multidisciplinary as well as interdisciplinary. The major helps the student qualify for graduate work in social sciences, law, and humanities, and for work in municipal, state, and federal government. Of equal importance are the advantages the major provides to work in community service organizations concerned with opportunities and problems of various ethnic and racial groups.

Student Learning Outcomes

Students graduating with a B.A. in Ethnic Studies from Cal State East Bay will be able to:

Summarize the legacies of contact, conquest, and resistance to racial oppression in domestic and transnational frames by defining and explaining key concepts such as colonialism, oppression, slavery, genocide, racialization, class, structural racism, sexism, homophobia, anti-racism, solidarity, whiteness, sustainability, and privilege.

Understand and apply critical frameworks of Ethnic Studies, including decolonizing methodology, intersectionality, resiliency theory, structural analysis, women of color feminism, and cultural analysis.

Recognize and explain the complexity and heterogeneity of racialized groups in the US, including intra-group differences related to gender, class, region, sexuality, generation, immigration status, language fluency and so forth.

Identify and critique essentialist paradigms.

Participate in community-based or service-learning projects overseen by Ethnic Studies faculty that link the critical frameworks and key concepts of Ethnic Studies with experiential learning.

Engage in critical reflection about social justice rooted in community-based experiences

Career Opportunities

- Teacher
- Attorney
- Diversity Specialist
- Journalist
- Public/ International Relations Specialist
- Government Service

- Professor
- Researcher
- Writer

Major Requirements (B.A.) 60 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 40 units;
 - the African American Studies Option consists of 20 units;
 - the American Indian Studies Option consists of 20 units.
 - the Asian American Studies Option consists of 20 units;
 - the Genders and Sexualities in Communities of Color Option consists of 20 units;
 - the Latino/a and Latin American Studies Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core Courses (4 units)

One course selected from the following:

- ES 1001 - Introduction to Ethnic Studies *Units: 4*
- ES 1005 - Viewing Diversity *Units: 4*
- ES 2200 - Introduction to Latino/a and Latin American Studies *Units: 4*
- ES 2400 - Introduction to American Indian Studies *Units: 4*
- ES 2500 - Introduction to Asian American Studies *Units: 4*
- ES 2700 - Introduction to Genders and Sexualities in Communities of Color *Units: 4*

Upper Division Core Courses (12 units)

- ES 3000 - Ethnic Writers *Units: 4*
- ES 3110 - Racism in America I *Units: 4*
- ES 3889 - Engaging Communities of Color *Units: 4*

Elective Courses (24 units)

Students may choose any of six (6) 4-unit courses from any of the options not selected for the primary option in consultation with an advisor.

Option Requirements

Choose one of the following options. Choose five courses in the option's area of study in consultation with an advisor. [One course from another department (4 units) can be chosen in consultation with an advisor. The course should be selected from a recommended list of courses that will be kept in the Ethnic Studies department.]

- Ethnic Studies, African American Studies Option, B.A.
- Ethnic Studies, American Indian Studies Option, B.A.
- Ethnic Studies, Asian American Studies Option, B.A.
- Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A.
- Ethnic Studies, Latino/a and Latin American Studies Option, B.A.

American Indian Studies Option (20 units)

Choose five courses (20 units) in the option's area of study in consultation with an advisor.

- ES 2400 - Introduction to American Indian Studies *Units: 4*
- ES 2320 - American Indian Oral Literature *Units: 4*
- ES 3230 - Oral Traditions *Units: 4*
- ES 3305 - Contemporary American Indian Life *Units: 4*
- ES 3310 - God is Red: American Indian World View *Units: 4*
- ES 3330 - American Indian Revitalization Movements *Units: 4*
- ES 3434 - Mixed Race Identities *Units: 4*
- ES 3700 - Special Topics in Ethnic Studies *Units: 4*
- ES 3800 - Peoples of Central America *Units: 4*
- ES 3999 - Issues in Ethnic Studies *Units: 4*
- ES 4900 - Independent Study *Units: 4*
- ANTH 3500 - North American Indians *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Ethnic Studies, Asian American Studies Option, B.A.

Department & Faculty Information

Ethnic Studies (B.A.) 180 units

Program Description

The Department of Ethnic Studies is central to the university's commitment "to educational excellence for a diverse society." It offers a major, minors, and courses that are interdisciplinary in nature and provide a

holistic approach to the study of the United States' multiracial, multicultural, and multigender immigrant society. The department's faculty provide areas of study that integrate social science and literary theory, as well as anthropological and sociological concepts within a historical and humanistic perspective. The underlying goal of Ethnic Studies is to provide a better understanding of diversity in American culture and thought.

The Ethnic Studies major consists of a core of Ethnic Studies courses, support courses in other departments in the university, and Options in Ethnic Studies, African American Studies Option, B.A., Ethnic Studies, Asian American Studies Option, B.A., Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A., Ethnic Studies, Latino/a and Latin American Studies Option, B.A., and Ethnic Studies, American Indian Studies Option, B.A. The curriculum is multidisciplinary as well as interdisciplinary. The major helps the student qualify for graduate work in social sciences, law, and humanities, and for work in municipal, state, and federal government. Of equal importance are the advantages the major provides to work in community service organizations concerned with opportunities and problems of various ethnic and racial groups.

Student Learning Outcomes

Students graduating with a B.A. in Ethnic Studies from Cal State East Bay will be able to:

Summarize the legacies of contact, conquest, and resistance to racial oppression in domestic and transnational frames by defining and explaining key concepts such as colonialism, oppression, slavery, genocide, racialization, class, structural racism, sexism, homophobia, anti-racism, solidarity, whiteness, sustainability, and privilege.

Understand and apply critical frameworks of Ethnic Studies, including decolonizing methodology, intersectionality, resiliency theory, structural analysis, women of color feminism, and cultural analysis.

Recognize and explain the complexity and heterogeneity of racialized groups in the US, including intra-group differences related to gender, class, region, sexuality, generation, immigration status, language fluency and so forth.

Identify and critique essentialist paradigms.

Participate in community-based or service-learning projects overseen by Ethnic Studies faculty that link the critical frameworks and key concepts of Ethnic Studies with experiential learning.

Engage in critical reflection about social justice rooted in community-based experiences

Career Opportunities

- Teacher
- Attorney
- Diversity Specialist
- Journalist
- Public/ International Relations Specialist
- Government Service
- Professor
- Researcher
- Writer

Major Requirements (B.A.) 60 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 40 units;
- the African American Studies Option consists of 20 units;
- the American Indian Studies Option consists of 20 units.
- the Asian American Studies Option consists of 20 units;
- the Genders and Sexualities in Communities of Color Option consists of 20 units;
- the Latino/a and Latin American Studies Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core Courses (4 units)

One course selected from the following:

- ES 1001 - Introduction to Ethnic Studies *Units: 4*
- ES 1005 - Viewing Diversity *Units: 4*
- ES 2200 - Introduction to Latino/a and Latin American Studies *Units: 4*
- ES 2400 - Introduction to American Indian Studies *Units: 4*
- ES 2500 - Introduction to Asian American Studies *Units: 4*
- ES 2700 - Introduction to Genders and Sexualities in Communities of Color *Units: 4*

Upper Division Core Courses (12 units)

- ES 3000 - Ethnic Writers *Units: 4*
- ES 3110 - Racism in America I *Units: 4*
- ES 3889 - Engaging Communities of Color *Units: 4*

Elective Courses (24 units)

Students may choose any of six (6) 4-unit courses from any of the options not selected for the primary option in consultation with an advisor.

Option Requirements

Choose one of the following options. Choose five courses in the option's area of study in consultation with an advisor. [One course from another department (4 units) can be chosen in consultation with an advisor. The course should be selected from a recommended list of courses that will be kept in the Ethnic Studies department.]

- Ethnic Studies, African American Studies Option, B.A.
- Ethnic Studies, American Indian Studies Option, B.A.
- Ethnic Studies, Asian American Studies Option, B.A.
- Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A.

- Ethnic Studies, Latino/a and Latin American Studies Option, B.A.

Asian American Studies Option (20 units)

Choose five courses (20 units) in the option's area of study in consultation with an advisor.

- ENGL 3670 - Asian/Filipino American Literature *Units: 4*
- ES 2500 - Introduction to Asian American Studies *Units: 4*
- ES 3030 - Immigrant and Refugee Women *Units: 4*
- ES 3434 - Mixed Race Identities *Units: 4*
- ES 3555 - Asian American Family Patterns *Units: 4*
- ES 3556 - Concentration Camps, U.S.A. *Units: 4*
- ES 3557 - Asian American Film Festival *Units: 4*
- ES 3600 - Presumed Guilty: Asian Americans and the Post-9/11 Racialized State *Units: 4*
- ES 3610 - South Asian American Experience *Units: 4*
- ES 3230 - Oral Traditions *Units: 4*
- ES 3700 - Special Topics in Ethnic Studies *Units: 4*
- ES 3999 - Issues in Ethnic Studies *Units: 4*
- ES 4900 - Independent Study *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A.

Department & Faculty Information

Ethnic Studies (B.A.) 180 units

Program Description

The Department of Ethnic Studies is central to the university's commitment "to educational excellence for a diverse society." It offers a major, minors, and courses that are interdisciplinary in nature and provide a

holistic approach to the study of the United States' multiracial, multicultural, and multigender immigrant society. The department's faculty provide areas of study that integrate social science and literary theory, as well as anthropological and sociological concepts within a historical and humanistic perspective. The underlying goal of Ethnic Studies is to provide a better understanding of diversity in American culture and thought.

The Ethnic Studies major consists of a core of Ethnic Studies courses, support courses in other departments in the university, and Options in Ethnic Studies, African American Studies Option, B.A., Ethnic Studies, Asian American Studies Option, B.A., Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A., Ethnic Studies, Latino/a and Latin American Studies Option, B.A., and Ethnic Studies, American Indian Studies Option, B.A. The curriculum is multidisciplinary as well as interdisciplinary. The major helps the student qualify for graduate work in social sciences, law, and humanities, and for work in municipal, state, and federal government. Of equal importance are the advantages the major provides to work in community service organizations concerned with opportunities and problems of various ethnic and racial groups.

Student Learning Outcomes

Students graduating with a B.A. in Ethnic Studies from Cal State East Bay will be able to:

Summarize the legacies of contact, conquest, and resistance to racial oppression in domestic and transnational frames by defining and explaining key concepts such as colonialism, oppression, slavery, genocide, racialization, class, structural racism, sexism, homophobia, anti-racism, solidarity, whiteness, sustainability, and privilege.

Understand and apply critical frameworks of Ethnic Studies, including decolonizing methodology, intersectionality, resiliency theory, structural analysis, women of color feminism, and cultural analysis.

Recognize and explain the complexity and heterogeneity of racialized groups in the US, including intra-group differences related to gender, class, region, sexuality, generation, immigration status, language fluency and so forth.

Identify and critique essentialist paradigms.

Participate in community-based or service-learning projects overseen by Ethnic Studies faculty that link the critical frameworks and key concepts of Ethnic Studies with experiential learning.

Engage in critical reflection about social justice rooted in community-based experiences

Career Opportunities

- Teacher
- Attorney
- Diversity Specialist
- Journalist
- Public/ International Relations Specialist
- Government Service
- Professor
- Researcher
- Writer

Major Requirements (B.A.) 60 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 40 units;
- the African American Studies Option consists of 20 units;
- the American Indian Studies Option consists of 20 units.
- the Asian American Studies Option consists of 20 units;
- the Genders and Sexualities in Communities of Color Option consists of 20 units;
- the Latino/a and Latin American Studies Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core Courses (4 units)

One course selected from the following:

- ES 1001 - Introduction to Ethnic Studies *Units: 4*
- ES 1005 - Viewing Diversity *Units: 4*
- ES 2200 - Introduction to Latino/a and Latin American Studies *Units: 4*
- ES 2400 - Introduction to American Indian Studies *Units: 4*
- ES 2500 - Introduction to Asian American Studies *Units: 4*
- ES 2700 - Introduction to Genders and Sexualities in Communities of Color *Units: 4*

Upper Division Core Courses (12 units)

- ES 3000 - Ethnic Writers *Units: 4*
- ES 3110 - Racism in America I *Units: 4*
- ES 3889 - Engaging Communities of Color *Units: 4*

Elective Courses (24 units)

Students may choose any of six (6) 4-unit courses from any of the options not selected for the primary option in consultation with an advisor.

Option Requirements

Choose one of the following options. Choose five courses in the option's area of study in consultation with an advisor. [One course from another department (4 units) can be chosen in consultation with an advisor. The course should be selected from a recommended list of courses that will be kept in the Ethnic Studies department.]

- Ethnic Studies, African American Studies Option, B.A.
- Ethnic Studies, American Indian Studies Option, B.A.
- Ethnic Studies, Asian American Studies Option, B.A.
- Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A.

- Ethnic Studies, Latino/a and Latin American Studies Option, B.A.

Genders and Sexualities in Communities of Color Option (20 units)

Choose five courses (20 units) in the option's area of study in consultation with an advisor.

- ES 3030 - Immigrant and Refugee Women *Units: 4*
or cross-listed WOST 3030.
- ES 3165 - African American Sexuality *Units: 4*
- ES 3210 - Latinas in the United States *Units: 4*
- ES 3230 - Oral Traditions *Units: 4*
- ES 3265 - Latino/a Sexualities *Units: 4*
- ES 3303 - Contemporary African American Women Writers *Units: 4*
- ES 3430 - Interracial Sex and Marriage *Units: 4*
- ES 3434 - Mixed Race Identities *Units: 4*
- ES 3700 - Special Topics in Ethnic Studies *Units: 4*
- ES 3710 - Racialized Masculinities *Units: 4*
- ES 3720 - James Baldwin *Units: 4*
- ES 3730 - Women of Color, Genders and Sexualities *Units: 4*
- ES 3999 - Issues in Ethnic Studies *Units: 4*
- ES 4300 - Queer of Color Subjects and Critical Theory *Units: 4*
- ES 4900 - Independent Study *Units: 4*
- WOST 3420 - Minority Women in America *Units: 4*
or cross-listed ES 3420.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Ethnic Studies, Latino/a and Latin American Studies Option, B.A.

Department & Faculty Information

Ethnic Studies (B.A.) 180 units

Program Description

The Department of Ethnic Studies is central to the university's commitment "to educational excellence for a diverse society." It offers a major, minors, and courses that are interdisciplinary in nature and provide a holistic approach to the study of the United States' multiracial, multicultural, and multigender immigrant society. The department's faculty provide areas of study that integrate social science and literary theory, as well as anthropological and sociological concepts within a historical and humanistic perspective. The underlying goal of Ethnic Studies is to provide a better understanding of diversity in American culture and thought.

The Ethnic Studies major consists of a core of Ethnic Studies courses, support courses in other departments in the university, and Options in Ethnic Studies, African American Studies Option, B.A., Ethnic Studies, Asian American Studies Option, B.A., Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A., Ethnic Studies, Latino/a and Latin American Studies Option, B.A., and Ethnic Studies, American Indian Studies Option, B.A. The curriculum is multidisciplinary as well as interdisciplinary. The major helps the student qualify for graduate work in social sciences, law, and humanities, and for work in municipal, state, and federal government. Of equal importance are the advantages the major provides to work in community service organizations concerned with opportunities and problems of various ethnic and racial groups.

Student Learning Outcomes

Students graduating with a B.A. in Ethnic Studies from Cal State East Bay will be able to:

Summarize the legacies of contact, conquest, and resistance to racial oppression in domestic and transnational frames by defining and explaining key concepts such as colonialism, oppression, slavery, genocide, racialization, class, structural racism, sexism, homophobia, anti-racism, solidarity, whiteness, sustainability, and privilege.

Understand and apply critical frameworks of Ethnic Studies, including decolonizing methodology, intersectionality, resiliency theory, structural analysis, women of color feminism, and cultural analysis.

Recognize and explain the complexity and heterogeneity of racialized groups in the US, including intra-group differences related to gender, class, region, sexuality, generation, immigration status, language fluency and so forth.

Identify and critique essentialist paradigms.

Participate in community-based or service-learning projects overseen by Ethnic Studies faculty that link the critical frameworks and key concepts of Ethnic Studies with experiential learning.

Engage in critical reflection about social justice rooted in community-based experiences

Career Opportunities

- Teacher
- Attorney
- Diversity Specialist
- Journalist
- Public/ International Relations Specialist
- Government Service
- Professor
- Researcher

- Writer

Major Requirements (B.A.) 60 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 40 units;
 - the African American Studies Option consists of 20 units;
 - the American Indian Studies Option consists of 20 units.
 - the Asian American Studies Option consists of 20 units;
 - the Genders and Sexualities in Communities of Color Option consists of 20 units;
 - the Latino/a and Latin American Studies Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core Courses (4 units)

One course selected from the following:

- ES 1001 - Introduction to Ethnic Studies *Units: 4*
- ES 1005 - Viewing Diversity *Units: 4*
- ES 2200 - Introduction to Latino/a and Latin American Studies *Units: 4*
- ES 2400 - Introduction to American Indian Studies *Units: 4*
- ES 2500 - Introduction to Asian American Studies *Units: 4*
- ES 2700 - Introduction to Genders and Sexualities in Communities of Color *Units: 4*

Upper Division Core Courses (12 units)

- ES 3000 - Ethnic Writers *Units: 4*
- ES 3110 - Racism in America I *Units: 4*
- ES 3889 - Engaging Communities of Color *Units: 4*

Elective Courses (24 units)

Students may choose any of six (6) 4-unit courses from any of the options not selected for the primary option in consultation with an advisor.

Option Requirements

Choose one of the following options. Choose five courses in the option's area of study in consultation with an advisor. [One course from another department (4 units) can be chosen in consultation with an advisor. The course should be selected from a recommended list of courses that will be kept in the Ethnic Studies department.]

- Ethnic Studies, African American Studies Option, B.A.
- Ethnic Studies, American Indian Studies Option, B.A.

- Ethnic Studies, Asian American Studies Option, B.A.
- Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A.
- Ethnic Studies, Latino/a and Latin American Studies Option, B.A.

Latino/a and Latin American Studies Option (20 units)

Choose five courses (20 units) in the option's area of study in consultation with an advisor.

- ES 3210 - Latinas in the United States *Units: 4*
- ES 3230 - Oral Traditions *Units: 4*
- ES 3255 - The Chicano Movement *Units: 4*
- ES 3265 - Latino/a Sexualities *Units: 4*
- ES 3434 - Mixed Race Identities *Units: 4*
- ES 3700 - Special Topics in Ethnic Studies *Units: 4*
- ES 3800 - Peoples of Central America *Units: 4*
- ES 3805 - Latin American Immigration *Units: 4*
- ES 3999 - Issues in Ethnic Studies *Units: 4*
- ES 4290 - Latino Politics and Public Policy *Units: 4*
- ES 4900 - Independent Study *Units: 4*
- HIST 3515 - Mexican Americans and the West *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

African American Studies Minor

Department & Faculty Information

The African American Studies minor offers the student majoring in another discipline the opportunity to obtain knowledge and understanding of America's largest racial minority and its relationship to the larger society. Students considering careers in teaching, government service, foreign affairs, business, health-science related fields, and law may find the minor compatible.

Minor Requirements (24 units)

Lower Division (8 units)

Two lower-division courses in African American studies selected from the following:

- ES 1001 - Introduction to Ethnic Studies *Units: 4*
- ES 2175 - Hip Hop Nation *Units: 4*
- ES 2300 - The Black Cinematic Tradition *Units: 4*

Upper Division (16 units)

- ES 3889 - Engaging Communities of Color *Units: 4*

And any Twelve (12) additional upper-division units

And any Twelve (12) additional upper-division units in African American studies, selected in consultation with an Ethnic Studies advisor:

- ES 3889 - Engaging Communities of Color *Units: 4*
- ES 3105 - African American Identity *Units: 4*
- ES 3120 - The Civil Rights Movement *Units: 4*
- ES 3130 - Slavery in the Americas *Units: 4*
- ES 3140 - Racism and Sports *Units: 4*
- ES 3145 - African American Music *Units: 4*
- ES 3146 - Jazz on Film *Units: 4*
- ES 3165 - African American Sexuality *Units: 4*
- ES 3190 - Internationalist Worldview of Malcolm X *Units: 4*
- ES 3230 - Oral Traditions *Units: 4*
- ES 3303 - Contemporary African American Women Writers *Units: 4*
- ES 3720 - James Baldwin *Units: 4*
- ES 3700 - Special Topics in Ethnic Studies *Units: 4*
- ES 3999 - Issues in Ethnic Studies *Units: 4*
- ES 4900 - Independent Study *Units: 4*

- ES 3691 - Black Literature I *Units: 4*
or
- ENGL 3691 - Black Literature I *Units: 4*

- HIST 3567 - African American History *Units: 4*
or
- ES 3567 - African American History *Units: 4*

- SOC 3415 - Sociology of the African American Family *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

American Indian Studies Minor

Department & Faculty Information

The American Indian Studies minor offers the student majoring in another discipline the opportunity to acquire knowledge and understanding of the original peoples of the United States as well as the entire Western Hemisphere and Pacific. This academic minor addresses historical, political, cultural, and intellectual issues of Native nations, providing an interdisciplinary basis for understanding the historical and contemporary problems not only of Native peoples, but of the United States as a colonial and military power.

Minor Requirements (24 units)

Core Courses (12 units)

Lower Division (8 units)

Two lower-division courses in Ethnic Studies or Asian American studies selected from the following:

- ES 1001 - Introduction to Ethnic Studies *Units: 4*
- ES 2320 - American Indian Oral Literature *Units: 4*
- ES 2400 - Introduction to American Indian Studies *Units: 4*

Upper Division (4 units)

- ES 3889 - Engaging Communities of Color *Units: 4*

Electives (12 units)

Select 3 courses from the following:

- ANTH 3500 - North American Indians *Units: 4*
- ES 3230 - Oral Traditions *Units: 4*
- ES 3305 - Contemporary American Indian Life *Units: 4*
- ES 3310 - God is Red: American Indian World View *Units: 4*
- ES 3330 - American Indian Revitalization Movements *Units: 4*
- ES 3800 - Peoples of Central America *Units: 4*
- ES 3700 - Special Topics in Ethnic Studies *Units: 4*

- ES 3999 - Issues in Ethnic Studies *Units: 4*
- ES 4900 - Independent Study *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Asian American Studies Minor

Department & Faculty Information

The Asian American Studies minor offers the student majoring in another discipline the opportunity to acquire knowledge and understanding of one of the major ethnic groups in the United States and its developing relationship to the larger society. Students considering careers in teaching, government service, foreign affairs, business, health-sciences related fields and law may find the minor compatible with their career goals.

Minor Requirements (24 units)

Core Courses (8 units)

Lower Division

One lower-division course in Ethnic Studies or Asian American studies selected from the following:

- ES 1001 - Introduction to Ethnic Studies *Units: 4*
- ES 2500 - Introduction to Asian American Studies *Units: 4*

Upper Division

- ES 3889 - Engaging Communities of Color *Units: 4*

Electives (16 units)

Four courses selected from the following:

- ES 3030 - Immigrant and Refugee Women *Units: 4*
- ES 3555 - Asian American Family Patterns *Units: 4*

- ES 3556 - Concentration Camps, U.S.A. *Units: 4*
- ES 3557 - Asian American Film Festival *Units: 4*
- ES 3600 - Presumed Guilty: Asian Americans and the Post-9/11 Racialized State
Units: 4
- ES 3610 - South Asian American Experience *Units: 4*
- ES 3230 - Oral Traditions *Units: 4*
- ES 3500 - The Afghan Diaspora *Units: 4*
- ES 3700 - Special Topics in Ethnic Studies *Units: 4*
- ES 3999 - Issues in Ethnic Studies *Units: 4*
- ES 4900 - Independent Study *Units: 4*
- ENGL 3670 - Asian/Filipino American Literature *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Ethnic Studies Minor

Department & Faculty Information

The Ethnic Studies minor is a comparative Ethnic Studies program that consists of a core of Ethnic Studies courses and Options in African American, Asian American, Genders and Sexualities in Communities of Color, Latino/a and Latin American Studies, and American Indian Studies. The curriculum is multidisciplinary as well as interdisciplinary. The major helps the student qualify for graduate work in social sciences, law, and humanities, and for work in municipal, state, and federal government. Of equal importance are the advantages the major provides to work in community service organizations concerned with opportunities and problems of various ethnic and racial groups.

Minor Requirements (24 units)

Lower Division (8 units)

One lower division introduction course (4 units) selected from the following:

- ES 1001 - Introduction to Ethnic Studies *Units: 4*
- ES 2500 - Introduction to Asian American Studies *Units: 4*
- ES 2700 - Introduction to Genders and Sexualities in Communities of Color *Units:*

- ES 2200 - Introduction to Latino/a and Latin American Studies *Units: 4*
- ES 2400 - Introduction to American Indian Studies *Units: 4*

One lower division elective course (4 units) selected from the following

One lower division elective course (4 units) selected from the following, or a second Introduction course from the list above:

- ES 2175 - Hip Hop Nation *Units: 4*
- ES 2300 - The Black Cinematic Tradition *Units: 4*

Upper Division (16 units)

- ES 3889 - Engaging Communities of Color *Units: 4*

And any Twelve (12) additional upper-division units

And any Twelve (12) additional upper-division units in at least three Ethnic Studies areas of study including: African American Studies, Asian American Studies, American Indian Studies, Genders & Sexualities in Communities of Color, and Latino/a and Latin American Studies selected in consultation with an Ethnic Studies advisor.

American Indian Studies

- ANTH 3500 - North American Indians *Units: 4*
- ES 3305 - Contemporary American Indian Life *Units: 4*
- ES 3310 - God is Red: American Indian World View *Units: 4*
- ES 3330 - American Indian Revitalization Movements *Units: 4*
- ES 3800 - Peoples of Central America *Units: 4*

Asian American Studies

- ENGL 3670 - Asian/Filipino American Literature *Units: 4*
- ES 3500 - The Afghan Diaspora *Units: 4*
- ES 3555 - Asian American Family Patterns *Units: 4*
- ES 3556 - Concentration Camps, U.S.A. *Units: 4*
- ES 3557 - Asian American Film Festival *Units: 4*
- ES 3600 - Presumed Guilty: Asian Americans and the Post-9/11 Racialized State *Units: 4*
- ES 3610 - South Asian American Experience *Units: 4*

African American Studies

- ENGL 3691 - Black Literature I *Units: 4 or Cross-listed ES 3691*
- ENGL 3692 - Black Literature II *Units: 4*
- ES 3105 - African American Identity *Units: 4*
- ES 3110 - Racism in America I *Units: 4*

- ES 3120 - The Civil Rights Movement *Units: 4*
- ES 3130 - Slavery in the Americas *Units: 4*
- ES 3146 - Jazz on Film *Units: 4*
- ES 3190 - Internationalist Worldview of Malcolm X *Units: 4*
- ES 3165 - African American Sexuality *Units: 4*
- ES 3303 - Contemporary African American Women Writers *Units: 4*
- ES 3720 - James Baldwin *Units: 4*
- SOC 3415 - Sociology of the African American Family *Units: 4*

Gender & Sexualities in Communities of Color

- ES 3710 - Racialized Masculinities *Units: 4*
- ES 3730 - Women of Color, Genders and Sexualities *Units: 4*
- ES 4300 - Queer of Color Subjects and Critical Theory *Units: 4*

Latino/a and Latin American Studies

- ES 3210 - Latinas in the United States *Units: 4*
- ES 3255 - The Chicano Movement *Units: 4*
- ES 3265 - Latino/a Sexualities *Units: 4*
- ES 3805 - Latin American Immigration *Units: 4*
- ES 4290 - Latino Politics and Public Policy *Units: 4*
- HIST 3515 - Mexican Americans and the West *Units: 4*

Additional Courses of Interest

- ES 3030 - Immigrant and Refugee Women *Units: 4*
- ES 3230 - Oral Traditions *Units: 4*
- ES 3333 - Ethics and Minority Politics *Units: 4*
- ES 3420 - Minority Women in America *Units: 4*
- ES 3430 - Interracial Sex and Marriage *Units: 4*
- ES 3434 - Mixed Race Identities *Units: 4*
- ES 3700 - Special Topics in Ethnic Studies *Units: 4*
- ES 3999 - Issues in Ethnic Studies *Units: 4*
- ES 4900 - Independent Study *Units: 4*
- WOST 3030 - Immigrant and Refugee Women *Units: 4 or Cross-listed ES 3030*
- WOST 3420 - Minority Women in America *Units: 4 or Cross-listed ES 3420*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Genders and Sexualities in Communities of Color Minor

Department & Faculty Information

In this minor, students will have the opportunity to focus critical attention on the intersection of race, gender, and sexuality through a variety of expressive and rhetorical modes, including performance, literature, music, visual arts, digital media, and public debate. Grounded in contemporary queer of color theory and woman of color feminist scholarship, courses in this minor explore gender and sexuality as complex social formations that produce a multiplicity of identities and practices.

Minor Requirements (24 units)

I. Core Courses (8 units)

- ES 2700 - Introduction to Genders and Sexualities in Communities of Color *Units: 4*
- ES 4040 - Senior Seminar *Units: 4*

II. Electives (16 units)

Select 4 courses from the following:

- ES 3165 - African American Sexuality *Units: 4*
- ES 3265 - Latino/a Sexualities *Units: 4*
- ES 3210 - Latinas in the United States *Units: 4*
- ES 3710 - Racialized Masculinities *Units: 4*
- ES 3720 - James Baldwin *Units: 4*
- ES 3730 - Women of Color, Genders and Sexualities *Units: 4*
- ES 4300 - Queer of Color Subjects and Critical Theory *Units: 4*

Course Descriptions

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Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Latino/a and Latin American Studies Minor

Department & Faculty Information

The Latino/a and Latin American Studies minor offers the student majoring in another discipline the opportunity to acquire knowledge and understanding of one of the history, culture, politics, and social conditions of Latinos/as in the U.S. as well of the culture and politics of Latin America and the larger socio-political processes of globalization, migration, and diaspora.

Minor Requirements (24 units)

Lower Division (8 units)

- ES 1001 - Introduction to Ethnic Studies *Units: 4*
- ES 2200 - Introduction to Latino/a and Latin American Studies *Units: 4*

Upper Division (16 units)

- ES 3889 - Engaging Communities of Color *Units: 4*

And any Twelve (12) additional upper-division units

And any Twelve (12) additional upper-division units in Latino/a and Latin American Studies, selected in consultation with an Ethnic Studies advisor:

- ES 3202 - Latino/a Writers *Units: 4*
- ES 3210 - Latinas in the United States *Units: 4*
- ES 3230 - Oral Traditions *Units: 4*
- ES 3243 - Latino/a Perspectives in Film *Units: 4*
- ES 3255 - The Chicano Movement *Units: 4*
- ES 3265 - Latino/a Sexualities *Units: 4*
- ES 3700 - Special Topics in Ethnic Studies *Units: 4*
- ES 3800 - Peoples of Central America *Units: 4*
- ES 3805 - Latin American Immigration *Units: 4*
- ES 3999 - Issues in Ethnic Studies *Units: 4*
- ES 4290 - Latino Politics and Public Policy *Units: 4*
- ES 4900 - Independent Study *Units: 4*
- HIST 3515 - Mexican Americans and the West *Units: 4*
- SOC 3416 - Sociology of the Mexican American Family *Units: 4*

Course Descriptions

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Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of History

The Department Office is located on the 4th Floor of the Student and Faculty Services building, Room 442

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3207

Faculty

Professors

Dee E. Andrews, Ph.D. University of Pennsylvania

Bridget Ford, Ph.D. University of California, Davis

Richard A. Garcia, Ph.D. University of California, Irvine

Nancy M. Thompson, Ph.D. Stanford University

Jessica Weiss, Ph.D. University of California, Berkeley

Associate Professors

Vahid Fozdar, Ph.D. University of California, Berkeley

Linda Ivey (Chair), Ph.D. Georgetown University

Robert A. Phelps, Ph.D. University of California, Riverside

Assistant Professors

Anna Alexander, Ph.D. University of Arizona

Elizabeth McGuire, Ph.D. University of California, Berkeley

Kevin Kaatz, Ph.D. Macquarie University, Sydney (Australia)

Graduate Coordinator: Khal Schneider

Department Statement

The History programs at Cal State East Bay seek to present the study of History as an enjoyable and fruitful endeavor incorporating the essential elements of liberal learning. The programs focus on students' acquisition of knowledge, cultivation of perspective, and development of skills in written and oral communication and in critical thinking. We aim to develop students' concern for enduring human values and appreciation of diverse peoples and traditions, as well as to engage students in a rigorous and compelling understanding of how the past informs the present.

Public History	History Student Association	Undergraduate Scholarships
	School of Global Humanities and Cultural Studies	

Bachelor of Arts

History, Asian and Middle Eastern History Option, B.A.

Department & Faculty Information

History (B.A.) 180 units

Program Description

Students who pursue work in History benefit in a variety of ways. Their studies afford them entree to the riches of the recorded past and understanding of the process of historical change. At the same time, a History major enables them to develop critical reading and writing skills which are valuable in life and in any employment field they choose to enter.

Student Learning Outcomes

Students graduating with a B.A. in History from Cal State East Bay will be able to:

1. know basic analytic concepts for assembling, organizing, and interpreting historical evidence, and achieve digital literacy in accessing and presenting historical materials;
2. demonstrate significant knowledge of major events and trends in their area of concentration;

3. write and speak clearly and persuasively about historical themes and topics, and work collaboratively with others in solving historical problems;
4. conduct historical research in primary sources, provide original interpretation of sources, and accurately reference all sources;
5. comprehend differences and similarities among diverse peoples and cultures over time and develop an historical perspective on social responsibility and sustainability.

Career Possibilities

- Archivist
- Attorney
- Corporate Historian
- Curator
- Diplomat/Foreign Service Officer
- Government Service
- International Relations Specialist
- Journalist
- Legal Assistant
- Librarian
- Museum Worker
- Professor
- Politician
- Public Administrator
- Researcher
- Teacher
- Writer

Features

The B.A. degree major in History requires 68 units in History, 24 at the lower division and 44 at the upper division level. Foundation courses (28 units) provide an introduction to the methods and purposes of historical study, historical writing, and surveys of world history and U.S. history. Option requirements (16 units) permit specialization in a particular area, while elective courses (16 units) provide additional breadth. Capstone courses in historiography and historical method acquaint students with the theory and history of historical study and provide opportunities for the student to engage in original historical research.

Preparation

Students planning to major in History should pay particular attention to the lower division requirements in the major: some of these may be satisfied before coming to Cal State East Bay.

Advanced Placement: Students who score a "3," "4," or "5" on the College Entrance Examination Board's Advanced Placement Test in European History will be granted 8 units of credit for HIST 1015 and HIST 1016 which count towards the lower division requirements in the History major. Students who earn a "3," "4," or "5" on the College Entrance Examination Board's Advanced Placement Test in U.S. History will receive 8 units of credit equivalent to HIST 1101 and 1102. Credit will apply to the U.S. history and U.S. Constitution requirements for graduation, but not to the California state and local government

requirement. An additional course is required to complete the California state and local government requirement.

Major Requirements (B.A.) 68 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 52 units;
- the Asian and Middle Eastern History Option consists of 16 units;
- the European History Option consists of 16 units.
- the History of California and the American West Option consists of 16 units;
- the Latin American History Option consists of 16 units;
- the United States History Option consists of 16 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Foundation Core (28 units)

The following courses should be taken as early in the major as possible:

- HIST 1014 - World Civilizations I *Units: 4*
or
- HIST 1017 - Ancient World Civilizations *Units: 4*

- HIST 1015 - World Civilizations II *Units: 4*
- HIST 1016 - World Civilizations III *Units: 4*
- HIST 1101 - History of the United States to 1877 *Units: 4*
- HIST 1102 - History of the United States Since 1877 *Units: 4*
- HIST 2010 - Introduction to History *Units: 4*
- HIST 3010 - Historical Writing *Units: 4*

Upper Division Capstone Core (8 units)

The following courses should be taken in the student's final three quarters. All Foundation courses must be completed before enrollment in Capstone courses.

- HIST 4030 - Historiography *Units: 4*

And one from the following:

- HIST 4031 - Historical Research Methods *Units: 4*
- HIST 4032 - Introduction to Public History *Units: 4*

Electives Core (16 units)

Four upper division courses (16 units) in History. These must include at least one course from each of at least two different option areas outside the student's option. HIST 3400 may not be counted towards the major.

Option Requirements

To complete the major unit requirements the Department of History offers several options for degree candidates. Majors should choose one of the following options:

- History, Asian and Middle Eastern History Option, B.A.
- History, European History Option, B.A.
- History, History of California and the American West Option, B.A.
- History, Latin American History Option, B.A.
- History, United States History Option, B.A.

Students may also design a topical (e.g., women's history), geographic (e.g., Russian history), or period (e.g., ancient and medieval history) option of their own with the advance written approval of the department chair.

Asian and Middle Eastern History Option (16 units)

Four courses (16 units) from the following:

- HIST 3303 - Precolonial India *Units: 4*
- HIST 3305 - Modern South Asia *Units: 4*
- HIST 3307 - Modern India through Film *Units: 4*
- HIST 3311 - Traditional China *Units: 4*
- HIST 3312 - Modern China *Units: 4*
- HIST 3313 - People's Republic of China *Units: 4*
- HIST 3322 - Early Japan *Units: 4*
- HIST 3323 - Modern Japan *Units: 4*
- HIST 3325 - Postwar Japan *Units: 4*
- HIST 3340 - The Middle East and Rise of Islamic Societies *Units: 4*
- HIST 3345 - The Modern Middle East *Units: 4*
- HIST 3803 - Topics in Asian History *Units: 4*

Course Descriptions

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Other Undergraduate Degree Requirements

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History, European History Option, B.A.

Department & Faculty Information

History (B.A.) 180 units

Program Description

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Student Learning Outcomes

Students graduating with a B.A. in History from Cal State East Bay will be able to:

1. know basic analytic concepts for assembling, organizing, and interpreting historical evidence, and achieve digital literacy in accessing and presenting historical materials;
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- Archivist
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- International Relations Specialist
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- Legal Assistant
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- Public Administrator
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Features

The B.A. degree major in History requires 68 units in History, 24 at the lower division and 44 at the upper division level. Foundation courses (28 units) provide an introduction to the methods and purposes of historical study, historical writing, and surveys of world history and U.S. history. Option requirements (16 units) permit specialization in a particular area, while elective courses (16 units) provide additional breadth. Capstone courses in historiography and historical method acquaint students with the theory and history of historical study and provide opportunities for the student to engage in original historical research.

Preparation

Students planning to major in History should pay particular attention to the lower division requirements in the major: some of these may be satisfied before coming to Cal State East Bay.

Advanced Placement: Students who score a "3," "4," or "5" on the College Entrance Examination Board's Advanced Placement Test in European History will be granted 8 units of credit for HIST 1015 and HIST 1016 which count towards the lower division requirements in the History major. Students who earn a "3," "4," or "5" on the College Entrance Examination Board's Advanced Placement Test in U.S. History will receive 8 units of credit equivalent to HIST 1101 and 1102. Credit will apply to the U.S. history and U.S. Constitution requirements for graduation, but not to the California state and local government requirement. An additional course is required to complete the California state and local government requirement.

Major Requirements (B.A.) 68 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 52 units;
- the Asian and Middle Eastern History Option consists of 16 units;
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- HIST 2010 - Introduction to History *Units: 4*

- HIST 3010 - Historical Writing *Units: 4*

Upper Division Capstone Core (8 units)

The following courses should be taken in the student's final three quarters. All Foundation courses must be completed before enrollment in Capstone courses.

- HIST 4030 - Historiography *Units: 4*

And one from the following:

- HIST 4031 - Historical Research Methods *Units: 4*
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Electives Core (16 units)

Four upper division courses (16 units) in History. These must include at least one course from each of at least two different option areas outside the student's option. HIST 3400 may not be counted towards the major.

Option Requirements

To complete the major unit requirements the Department of History offers several options for degree candidates. Majors should choose one of the following options:

- History, Asian and Middle Eastern History Option, B.A.
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- History, United States History Option, B.A.

Students may also design a topical (e.g., women's history), geographic (e.g., Russian history), or period (e.g., ancient and medieval history) option of their own with the advance written approval of the department chair.

European History Option (16 units)

Sixteen (16) units required:

Two courses (8 units) from the following:

- HIST 3107 - History of Ancient Greece *Units: 4*
- HIST 3108 - History of Ancient Rome *Units: 4*
- HIST 3127 - Europe in the Early Middle Ages *Units: 4*
- HIST 3128 - Europe in the Later Middle Ages *Units: 4*
- HIST 3130 - Renaissance and Reformation Europe *Units: 4*
- HIST 3150 - Early Modern Europe, 1550-1789 *Units: 4*
- HIST 3160 - Europe in the 19th Century *Units: 4*

Two courses (8 units) from the following:

- HIST 3005 - Frankenstein: The Making of a Myth *Units: 4*
- HIST 3017 - The Twentieth Century *Units: 4*
- HIST 3114 - History of Early Christianity *Units: 4*
- HIST 3123 - History of Medieval Christianity *Units: 4*
- HIST 3125 - Women in Medieval and Early Modern Europe *Units: 4*
- HIST 3223 - History of the Soviet Union *Units: 4*
- HIST 3224 - The Cold War *Units: 4*
- HIST 3230 - Science and Medicine to 1700 *Units: 4*
- HIST 3801 - Topics in European History *Units: 4*

Course Descriptions

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Other Undergraduate Degree Requirements

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History, History of California and the American West Option, B.A.

Department & Faculty Information

History (B.A.) 180 units

Program Description

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Student Learning Outcomes

Students graduating with a B.A. in History from Cal State East Bay will be able to:

1. know basic analytic concepts for assembling, organizing, and interpreting historical evidence, and achieve digital literacy in accessing and presenting historical materials;
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Career Possibilities

- Archivist
- Attorney
- Corporate Historian
- Curator
- Diplomat/Foreign Service Officer
- Government Service
- International Relations Specialist
- Journalist
- Legal Assistant
- Librarian
- Museum Worker
- Professor
- Politician
- Public Administrator
- Researcher
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Features

The B.A. degree major in History requires 68 units in History, 24 at the lower division and 44 at the upper division level. Foundation courses (28 units) provide an introduction to the methods and purposes of historical study, historical writing, and surveys of world history and U.S. history. Option requirements (16 units) permit specialization in a particular area, while elective courses (16 units) provide additional breadth. Capstone courses in historiography and historical method acquaint students with the theory and history of historical study and provide opportunities for the student to engage in original historical research.

Preparation

Students planning to major in History should pay particular attention to the lower division requirements in the major: some of these may be satisfied before coming to Cal State East Bay.

Advanced Placement: Students who score a "3," "4," or "5" on the College Entrance Examination Board's Advanced Placement Test in European History will be granted 8 units of credit for HIST 1015 and HIST 1016 which count towards the lower division requirements in the History major. Students who earn a "3," "4," or "5" on the College Entrance Examination Board's Advanced Placement Test in U.S. History will receive 8 units of credit equivalent to HIST 1101 and 1102. Credit will apply to the U.S. history and U.S. Constitution requirements for graduation, but not to the California state and local government

requirement. An additional course is required to complete the California state and local government requirement.

Major Requirements (B.A.) 68 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 52 units;
- the Asian and Middle Eastern History Option consists of 16 units;
- the European History Option consists of 16 units.
- the History of California and the American West Option consists of 16 units;
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- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Foundation Core (28 units)

The following courses should be taken as early in the major as possible:

- HIST 1014 - World Civilizations I *Units: 4*
or
- HIST 1017 - Ancient World Civilizations *Units: 4*

- HIST 1015 - World Civilizations II *Units: 4*
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- HIST 1102 - History of the United States Since 1877 *Units: 4*
- HIST 2010 - Introduction to History *Units: 4*
- HIST 3010 - Historical Writing *Units: 4*

Upper Division Capstone Core (8 units)

The following courses should be taken in the student's final three quarters. All Foundation courses must be completed before enrollment in Capstone courses.

- HIST 4030 - Historiography *Units: 4*

And one from the following:

- HIST 4031 - Historical Research Methods *Units: 4*
- HIST 4032 - Introduction to Public History *Units: 4*

Electives Core (16 units)

Four upper division courses (16 units) in History. These must include at least one course from each of at least two different option areas outside the student's option. HIST 3400 may not be counted towards the major.

Option Requirements

To complete the major unit requirements the Department of History offers several options for degree candidates. Majors should choose one of the following options:

- History, Asian and Middle Eastern History Option, B.A.
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Students may also design a topical (e.g., women's history), geographic (e.g., Russian history), or period (e.g., ancient and medieval history) option of their own with the advance written approval of the department chair.

History of California and the American West Option (16 units)

Sixteen (16) units required:

Two courses (8 units) from the following:

- HIST 3500 - History of California *Units: 4*
- HIST 3511 - The American West *Units: 4*

Two courses (8 units) from the following:

- HIST 3503 - History of the San Francisco Bay Area *Units: 4*
- HIST 3505 - California Environmental History *Units: 4*
- HIST 3515 - Mexican Americans and the West *Units: 4*
- HIST 3517 - The Immigrants' West *Units: 4*
- HIST 3530 - The Shaping of North America, 1492-1850 *Units: 4*
- HIST 3535 - American Indian History *Units: 4*
- HIST 3538 - American Indians in the 20th Century *Units: 4*
- HIST 4032 - Introduction to Public History *Units: 4*

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state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

History, Latin American History Option, B.A.

Department & Faculty Information

History (B.A.) 180 units

Program Description

Students who pursue work in History benefit in a variety of ways. Their studies afford them entree to the riches of the recorded past and understanding of the process of historical change. At the same time, a History major enables them to develop critical reading and writing skills which are valuable in life and in any employment field they choose to enter.

Student Learning Outcomes

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Features

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Preparation

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Advanced Placement: Students who score a "3," "4," or "5" on the College Entrance Examination Board's Advanced Placement Test in European History will be granted 8 units of credit for HIST 1015 and HIST 1016 which count towards the lower division requirements in the History major. Students who earn a "3," "4," or "5" on the College Entrance Examination Board's Advanced Placement Test in U.S. History will receive 8 units of credit equivalent to HIST 1101 and 1102. Credit will apply to the U.S. history and U.S. Constitution requirements for graduation, but not to the California state and local government requirement. An additional course is required to complete the California state and local government requirement.

Major Requirements (B.A.) 68 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

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Lower Division Foundation Core (28 units)

The following courses should be taken as early in the major as possible:

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or
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The following courses should be taken in the student's final three quarters. All Foundation courses must be completed before enrollment in Capstone courses.

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Electives Core (16 units)

Four upper division courses (16 units) in History. These must include at least one course from each of at least two different option areas outside the student's option. HIST 3400 may not be counted towards the major.

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To complete the major unit requirements the Department of History offers several options for degree candidates. Majors should choose one of the following options:

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- History, Latin American History Option, B.A.
- History, United States History Option, B.A.

Students may also design a topical (e.g., women's history), geographic (e.g., Russian history), or period (e.g., ancient and medieval history) option of their own with the advance written approval of the department chair.

Latin American History Option (16 units)

Four courses (16 units) from the following:

- HIST 3600 - Colonial Latin America *Units: 4*
- HIST 3605 - Modern Latin America *Units: 4*
- HIST 3622 - Mexico Since 1810 *Units: 4*
- HIST 3632 - Film and Society in Latin America *Units: 4*
- HIST 3804 - Topics in Latin American History *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

History, United States History Option, B.A.

Department & Faculty Information

History (B.A.) 180 units

Program Description

Students who pursue work in History benefit in a variety of ways. Their studies afford them entree to the riches of the recorded past and understanding of the process of historical change. At the same time, a History major enables them to develop critical reading and writing skills which are valuable in life and in any employment field they choose to enter.

Student Learning Outcomes

Students graduating with a B.A. in History from Cal State East Bay will be able to:

1. know basic analytic concepts for assembling, organizing, and interpreting historical evidence, and achieve digital literacy in accessing and presenting historical materials;
2. demonstrate significant knowledge of major events and trends in their area of concentration;
3. write and speak clearly and persuasively about historical themes and topics, and work collaboratively with others in solving historical problems;
4. conduct historical research in primary sources, provide original interpretation of sources, and accurately reference all sources;
5. comprehend differences and similarities among diverse peoples and cultures over time and develop an historical perspective on social responsibility and sustainability.

Career Possibilities

- Archivist
- Attorney
- Corporate Historian
- Curator
- Diplomat/Foreign Service Officer
- Government Service
- International Relations Specialist
- Journalist

- Legal Assistant
- Librarian
- Museum Worker
- Professor
- Politician
- Public Administrator
- Researcher
- Teacher
- Writer

Features

The B.A. degree major in History requires 68 units in History, 24 at the lower division and 44 at the upper division level. Foundation courses (28 units) provide an introduction to the methods and purposes of historical study, historical writing, and surveys of world history and U.S. history. Option requirements (16 units) permit specialization in a particular area, while elective courses (16 units) provide additional breadth. Capstone courses in historiography and historical method acquaint students with the theory and history of historical study and provide opportunities for the student to engage in original historical research.

Preparation

Students planning to major in History should pay particular attention to the lower division requirements in the major: some of these may be satisfied before coming to Cal State East Bay.

Advanced Placement: Students who score a "3," "4," or "5" on the College Entrance Examination Board's Advanced Placement Test in European History will be granted 8 units of credit for HIST 1015 and HIST 1016 which count towards the lower division requirements in the History major. Students who earn a "3," "4," or "5" on the College Entrance Examination Board's Advanced Placement Test in U.S. History will receive 8 units of credit equivalent to HIST 1101 and 1102. Credit will apply to the U.S. history and U.S. Constitution requirements for graduation, but not to the California state and local government requirement. An additional course is required to complete the California state and local government requirement.

Major Requirements (B.A.) 68 units

Please consult an advisor in your major department for clarification and interpretation of your major requirements. The B.A. degree requires a total of 180 units.

- The core major consists of 52 units;
 - the Asian and Middle Eastern History Option consists of 16 units;
 - the European History Option consists of 16 units.
 - the History of California and the American West Option consists of 16 units;
 - the Latin American History Option consists of 16 units;
 - the United States History Option consists of 16 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Foundation Core (28 units)

The following courses should be taken as early in the major as possible:

- HIST 1014 - World Civilizations I *Units: 4*
or
- HIST 1017 - Ancient World Civilizations *Units: 4*

- HIST 1015 - World Civilizations II *Units: 4*
- HIST 1016 - World Civilizations III *Units: 4*
- HIST 1101 - History of the United States to 1877 *Units: 4*
- HIST 1102 - History of the United States Since 1877 *Units: 4*
- HIST 2010 - Introduction to History *Units: 4*
- HIST 3010 - Historical Writing *Units: 4*

Upper Division Capstone Core (8 units)

The following courses should be taken in the student's final three quarters. All Foundation courses must be completed before enrollment in Capstone courses.

- HIST 4030 - Historiography *Units: 4*

And one from the following:

- HIST 4031 - Historical Research Methods *Units: 4*
- HIST 4032 - Introduction to Public History *Units: 4*

Electives Core (16 units)

Four upper division courses (16 units) in History. These must include at least one course from each of at least two different option areas outside the student's option. HIST 3400 may not be counted towards the major.

Option Requirements

To complete the major unit requirements the Department of History offers several options for degree candidates. Majors should choose one of the following options:

- History, Asian and Middle Eastern History Option, B.A.
 - History, European History Option, B.A.
 - History, History of California and the American West Option, B.A.
 - History, Latin American History Option, B.A.
 - History, United States History Option, B.A.
- Students may also design a topical (e.g., women's history), geographic (e.g., Russian history), or period (e.g., ancient and medieval history) option of their own with the advance written approval of the department chair.

United States History Option (16 units)

Sixteen (16) units required:

Two courses (8 units) from the following:

- HIST 3411 - Colonial America *Units: 4*
- HIST 3412 - The American Revolution *Units: 4*
- HIST 3413 - The New Republic *Units: 4*
- HIST 3414 - Civil War and Reconstruction *Units: 4*
- HIST 3415 - America in the Age of Empire *Units: 4*
- HIST 3416 - The Great Depression and World War II *Units: 4*
- HIST 3417 - Cold War America *Units: 4*

Two courses (8 units) from the following:

- HIST 3224 - The Cold War *Units: 4*
- HIST 3500 - History of California *Units: 4*
- HIST 3503 - History of the San Francisco Bay Area *Units: 4*
- HIST 3505 - California Environmental History *Units: 4*
- HIST 3511 - The American West *Units: 4*
- HIST 3515 - Mexican Americans and the West *Units: 4*
- HIST 3517 - The Immigrants' West *Units: 4*
- HIST 3530 - The Shaping of North America, 1492-1850 *Units: 4*
- HIST 3535 - American Indian History *Units: 4*
- HIST 3538 - American Indians in the 20th Century *Units: 4*
- HIST 3547 - The United States and Modern War *Units: 4*
- HIST 3550 - The History of U.S. Foreign Relations *Units: 4*
- HIST 3553 - Modern American Thought and Culture *Units: 4*
- HIST 3570 - The Family and Sexuality in American History *Units: 4*
- HIST 3571 - Women in American History *Units: 4*
- HIST 3572 - American Women in the Twentieth Century *Units: 4*
- HIST 3802 - Topics in United States History *Units: 4*

Course Descriptions

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Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Single Subject Preparation (Undergraduate)

Social Science, Single Subject Matter Preparation

Department & Faculty Information

Single Subject Matter Preparation Programs

- Foundational-level Mathematics, Single Subject Matter Preparation
- Mathematics, Single Subject Matter Preparation
- Music, Single Subject Matter Preparation Program
- Physical Education, Single Subject Matter Preparation
- Social Science, Single Subject Matter Preparation

Single Subject Matter Preparation: Social Science

Completion of the Single Subject Matter Preparation Program in Social Science is certified by the Department of History. The program may be completed by students in any major, but overlaps major requirements in several Social Science fields such as History, Political Science, Geography, and Economics. The Single Subject Matter Preparation program in Social Science requires 84 units. This program has been designed to meet CCTC standards. For additional information, contact the Social Science Coordinator in the Department of History: Meiklejohn Hall 4031; 510-885-3207; website: <http://csueastbay.edu/history>.

Note: No more than 8 units may be taken on a CR/NC basis. No more than 8 units with a grade below "C" may be submitted in fulfillment of any program requirement. To successfully complete the program, a student must have a minimum 2.5 GPA in courses taken to fulfill program requirements or complete additional coursework to be determined by the program advisor. Students must successfully complete the "capstone course" in the final quarter of their participation in the program.

Core Curriculum (48 units)

Core curriculum includes U.S. and World History, Geography, California History, American Government and Economics:

- GEOG 2300 - Cultural Geography *Units: 4*
- GEOG 3360 - Historical Geography of North America *Units: 4*
- HIST 1014 - World Civilizations I *Units: 4*
or
- HIST 1017 - Ancient World Civilizations *Units: 4*

- HIST 1015 - World Civilizations II *Units: 4*
- HIST 1016 - World Civilizations III *Units: 4*
- HIST 1101 - History of the United States to 1877 *Units: 4*
- HIST 1102 - History of the United States Since 1877 *Units: 4*
- HIST 3500 - History of California *Units: 4*
- POSC 1201 - American Political Institutions *Units: 4*
- POSC 1202 - Public Policy/California Politics *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*

- ECON 2302 - Principles of Macroeconomics *Units: 4*

Breadth and Perspective (35 units)

Historiography and Research Methods

- HIST 3010 - Historical Writing *Units: 4*

History/Social Science Teaching

- TED 3001 - Exploring Education *Units: 3*

American Democracy

Choose one from each group:

- HIST 3412 - The American Revolution *Units: 4*
- HIST 3413 - The New Republic *Units: 4*
- HIST 3414 - Civil War and Reconstruction *Units: 4*
- HIST 3415 - America in the Age of Empire *Units: 4*
- HIST 3416 - The Great Depression and World War II *Units: 4*
- HIST 3417 - Cold War America *Units: 4*

- POSC 3111 - The American Presidency *Units: 4*
- POSC 3120 - State and Local Politics and Government *Units: 4*
- POSC 3150 - Politics of California *Units: 4*
- POSC 3410 - Law and Society *Units: 4*
- POSC 3441 - American Constitutional Law: Government *Units: 4*
- POSC 3442 - American Constitutional Law: Rights *Units: 4*

American Diversity

Choose one from following:

- HIST 3571 - Women in American History *Units: 4*
- HIST 3572 - American Women in the Twentieth Century *Units: 4*
- POSC 3333 - Ethnic and Minority Politics *Units: 4*
- POSC 3340 - Women and Politics *Units: 4*
- SOC 3420 - Social Inequality *Units: 4*
- SOC 3425 - Prejudice and Discrimination *Units: 4*
- SOC 3520 - Sociology of Race and Ethnic Relations *Units: 4*
- WOST 3420 - Minority Women in America *Units: 4 or cross-listed ES 3420*

Global Perspectives

Choose one from each group:

- GEOG 3540 - China and Japan *Units: 4*

- GEOG 3550 - Geography of Southeast Asia *Units: 4*
- HIST 3017 - The Twentieth Century *Units: 4*
- HIST 3160 - Europe in the 19th Century *Units: 4*
- HIST 3223 - History of the Soviet Union *Units: 4*
- HIST 3305 - Modern South Asia *Units: 4*
- HIST 3312 - Modern China *Units: 4*
- HIST 3313 - People's Republic of China *Units: 4*
- HIST 3325 - Postwar Japan *Units: 4*
- HIST 3345 - The Modern Middle East *Units: 4*
- HIST 3605 - Modern Latin America *Units: 4*

Assessment Capstone (1 unit)

- HIST 4500 - The California History/Social Science Framework *Units: 1*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Arts

History, Generalist Option, M.A.

Department & Faculty Information

History (M.A.) 45 units

Program Description

The Master of Arts degree in History is designed to meet the varied needs and interests of students seeking an advanced degree in history. The program educates students in advanced skills in historical research, writing, interpretation and research, and provides opportunities for training in teaching and public history. Four options permit students to plan their coursework to best suit their goals within the overall program requirements and the range of courses offered.

The program includes graduate course offerings in historical research and historiography, conference (seminar) courses, undergraduate or graduate elective units, and a culminating master's project. Elective units may be taken in other fields with the approval of the graduate coordinator. The master's project may be a university thesis, examinations in major and minor fields, a public history project or a graduate teaching project, depending on the option chosen.

Because the majority of students in the master's program are employed full-time during the day, graduate courses are offered in the evening, usually on a one-night-a-week basis, in fall, winter, and spring quarters. This schedule allows students time to complete regular assignments, carry on research, and make regular progress toward the M.A. degree.

Student Learning Outcomes

Students graduating with an M.A. in History from Cal State East Bay will be able to:

1. possess advanced knowledge of United States history and the history of at least one other geographical region;
2. understand major arguments and themes in contemporary historiography, cross-cultural and interdisciplinary approaches to historical study, and humanistic values;
3. demonstrate familiarity with Bay Area research libraries, archives, special collections, and digital sources;
4. possess advanced writing and interpretive skills for analyzing both secondary and primary sources, and demonstrate advanced research abilities;
5. complete a major independent project in history;
6. observe the standards of academic integrity and attribution of sources, and practice the values of the historical profession, including ethics and standards for work in research libraries, on the Internet, at professional conferences, and at interviews for employment.

Career Opportunities

The master's program is especially suited to individuals interested in enhancing their careers as secondary school teachers, in qualifying as community college faculty, or training as historical editors, archivists, museum professionals and Bay Area or California historians. It is also useful for individuals interested in retraining for careers in history or in preparing for doctoral programs in history.

Faculty

Although most graduate students find it convenient to specialize in American and California history, the History Department faculty also includes specialists in European, Asian, and Latin American history. Qualified graduate students may usually carry out research and specialize in these areas as well. The full-time faculty are professional scholars, widely published in their respective fields and active in regional and national historical associations. The department has many years' experience in advising and training master's students in history.

Option Areas

All History graduate students may complete their degrees with culminating examinations in a major and a minor field, selected in consultation with their graduate committees. Students may also choose one of three other options: Teaching, Public History, or University Thesis. These options are distinguished chiefly by their capstone projects, but the Teaching and Public History options also include courses

especially designed for the field. Students must apply to the department for permission to complete their programs in any of the three options.

HIST 6010 and 6030

All graduate students are required to take HIST 6010 and HIST 6030. These two important seminars provide students with first-hand experience in primary source research in Bay Area collections and libraries and on the Internet, and with advanced knowledge of trends in the study of historical interpretation and writing, cross-cultural and interdisciplinary approaches to history, humanistic values in history and ethical standards. Students are urged to take these two courses in their first year of graduate study. Proficiency in information literacy is required for each course.

Distinctive Features

Research opportunities in Bay Area and California history abound at the University of California, Berkeley; the Bancroft Library; the National Archives at San Bruno; and numerous private collections in the region. The University Library provides excellent reference, Internet, and interlibrary loan services and contains substantial print and microfilm holdings.

Internships

History graduate students are encouraged to gain experience in applied history through internships at historical agencies in the Bay Area, depending on availability. Internships, like all formal appointments, entail an application process and interview. Internships are nearly always non-paying, but all graduate students are eligible to enroll in up to 4 units of HIST 6901, as a substitution for an elective in the program (see "Electives" below).

Readerships

Pending annual funding, students may also acquire experience in lower-division teaching through paid Readerships, upon application to the History Department.

Scholarships

Qualified history graduate students are eligible for graduate financial aid through the loan and fellowship programs administered by the Financial Aid Office. Small scholarships, pending available funds, are awarded annually to assist graduate students in completing their master's projects.

Admission

Admission to the master's program generally requires a B.A. degree major in History, or the equivalent, and a minimum GPA of 3.0 ("B") in the last two years of undergraduate work and 3.25 ("B+") in history. A one-page statement of purpose, a writing sample, and two letters of recommendation must accompany applications. In addition, applicants must submit their scores on the Graduate Record Exam (GRE) to the History Department office. Interested students with degrees in related disciplines, such as American Studies, Ethnic Studies, Political Science, Art or Theater History, and Literature, and suitable academic backgrounds in history are encouraged to apply but will be required to complete prerequisite coursework in history.

Students without necessary background in research or writing may also be admitted to the program as "Conditionally Classified Graduate" students with the requirement that they complete HIST 4030 and/or HIST 4031 at a specified grade level before being admitted to "Classified Graduate" status. Students meeting all admissions requirements, and who have satisfied the University Writing Skills Requirement, are eligible to be admitted as "Classified Graduate" students. Applicants should consult with the History Graduate Coordinator for advising. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Upper Division Courses Acceptable for the Master's Degree

All History courses in the 3000-4000 series except HIST 3400, HIST 4030, and HIST 4031 are acceptable courses in a master's program.

Advancement to Candidacy

In addition students must meet the requirements of Advancement to Candidacy confirming that a student is prepared to finish the degree and is recommended as a degree candidate. A Classified Graduate student in good standing is eligible to be advanced to candidacy for the master's degree after:

1. completing 12 quarter units applicable to the degree program
2. completing HIST 6010 and HIST 6030
3. submitting a proposal for the Master's thesis, project, or two fields of examination to the Graduate Committee
4. obtaining the Graduate Coordinator's approval of the student's committee, comprised of at least two faculty members.

Degree Requirements

The Master of Arts degree in History consists of 45 units. Each of the four options in the master's program requires a prescribed program of 45 units listed below. Reading proficiency in a foreign language is strongly encouraged, especially for those planning to pursue doctoral degrees or research careers.

Core Courses (13 units)

- HIST 6010 - Seminar in History *Units: 5*
- HIST 6030 - Graduate Historiography *Units: 4*
- HIST 6050 - History Graduate Portfolio *Units: 4*

Conference Courses (12-16 units)

Complete three to four conference courses, depending on choice of option (below) in at least two different areas.

- Generalist options students must complete sixteen (16) units of Conference Courses.
- Public History option students must twelve (12) units of Conference Courses.
- Teaching option students must complete twelve (12) units of Conference Courses.

- University Thesis option students must complete twelve (12) units of Conference Courses; one conference course in the general area of the thesis topic. The same course number may be taken more than once if the content is significantly different.
- HIST 6100 - Conference Course in Ancient and Medieval History *Units: 4*
- HIST 6200 - Conference Course in European History *Units: 4*
- HIST 6300 - Conference Course in Asian and Middle Eastern History *Units: 4*
- HIST 6400 - Conference Course in United States History *Units: 4*

Electives (8-12)

Eight (8) to twelve (12) units of upper division or graduate courses in History, depending on choice of option.

- Generalist option students must take twelve (12) units of electives.
 - Public History option students must take eight (8) units of electives and may select, with the approval of the Public History and Internship Coordinator and the Graduate Coordinator, courses in other disciplines specific to their professional goals.
 - Teaching option students must take eight (8) units of electives.
 - University Thesis option students must take twelve (12) units of electives.
- All students may substitute HIST 6901 - Internship in Public History and/or HIST 6900 - Independent Study for 4-8 units of electives, with approval of the Graduate Coordinator.

Option Requirements (4-12 units)

Students must select one of the options outlined below. Students are required to consult with the Graduate Coordinator regarding the selection of their conference courses and electives above, and for guidance in obtaining required approval for their chosen capstone project.

- History, Generalist Option, M.A.
- History, Public History Option, M.A.
- History, Teaching Option, M.A.
- History, University Thesis Option, M.A.

Generalist Option

Capstone Experience: Comprehensive Examination.

Under the guidance of two faculty mentors, Generalist option students must take the following course and pass comprehensive examinations in major and minor fields as prescribed by the department.

- HIST 6905 - Directed Readings in History *Units: 1-4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

History, Public History Option, M.A.

Department & Faculty Information

History (M.A.) 45 units

Program Description

The Master of Arts degree in History is designed to meet the varied needs and interests of students seeking an advanced degree in history. The program educates students in advanced skills in historical research, writing, interpretation and research, and provides opportunities for training in teaching and public history. Four options permit students to plan their coursework to best suit their goals within the overall program requirements and the range of courses offered.

The program includes graduate course offerings in historical research and historiography, conference (seminar) courses, undergraduate or graduate elective units, and a culminating master's project. Elective units may be taken in other fields with the approval of the graduate coordinator. The master's project may be a university thesis, examinations in major and minor fields, a public history project or a graduate teaching project, depending on the option chosen.

Because the majority of students in the master's program are employed full-time during the day, graduate courses are offered in the evening, usually on a one-night-a-week basis, in fall, winter, and spring quarters. This schedule allows students time to complete regular assignments, carry on research, and make regular progress toward the M.A. degree.

Student Learning Outcomes

Students graduating with an M.A. in History from Cal State East Bay will be able to:

1. possess advanced knowledge of United States history and the history of at least one other geographical region;
2. understand major arguments and themes in contemporary historiography, cross-cultural and interdisciplinary approaches to historical study, and humanistic values;
3. demonstrate familiarity with Bay Area research libraries, archives, special collections, and digital sources;
4. possess advanced writing and interpretive skills for analyzing both secondary and primary sources, and demonstrate advanced research abilities;
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The master's program is especially suited to individuals interested in enhancing their careers as secondary school teachers, in qualifying as community college faculty, or training as historical editors, archivists, museum professionals and Bay Area or California historians. It is also useful for individuals interested in retraining for careers in history or in preparing for doctoral programs in history.

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Option Areas

All History graduate students may complete their degrees with culminating examinations in a major and a minor field, selected in consultation with their graduate committees. Students may also choose one of three other options: Teaching, Public History, or University Thesis. These options are distinguished chiefly by their capstone projects, but the Teaching and Public History options also include courses especially designed for the field. Students must apply to the department for permission to complete their programs in any of the three options.

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History graduate students are encouraged to gain experience in applied history through internships at historical agencies in the Bay Area, depending on availability. Internships, like all formal appointments, entail an application process and interview. Internships are nearly always non-paying, but all graduate students are eligible to enroll in up to 4 units of HIST 6901, as a substitution for an elective in the program (see "Electives" below).

Readerships

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Qualified history graduate students are eligible for graduate financial aid through the loan and fellowship programs administered by the Financial Aid Office. Small scholarships, pending available funds, are awarded annually to assist graduate students in completing their master's projects.

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Students without necessary background in research or writing may also be admitted to the program as "Conditionally Classified Graduate" students with the requirement that they complete HIST 4030 and/or HIST 4031 at a specified grade level before being admitted to "Classified Graduate" status. Students meeting all admissions requirements, and who have satisfied the University Writing Skills Requirement, are eligible to be admitted as "Classified Graduate" students. Applicants should consult with the History Graduate Coordinator for advising. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

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In addition students must meet the requirements of Advancement to Candidacy confirming that a student is prepared to finish the degree and is recommended as a degree candidate. A Classified Graduate student in good standing is eligible to be advanced to candidacy for the master's degree after:

1. completing 12 quarter units applicable to the degree program
2. completing HIST 6010 and HIST 6030
3. submitting a proposal for the Master's thesis, project, or two fields of examination to the Graduate Committee
4. obtaining the Graduate Coordinator's approval of the student's committee, comprised of at least two faculty members.

Degree Requirements

The Master of Arts degree in History consists of 45 units. Each of the four options in the master's program requires a prescribed program of 45 units listed below. Reading proficiency in a foreign language is strongly encouraged, especially for those planning to pursue doctoral degrees or research careers.

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- Public History option students must twelve (12) units of Conference Courses.
- Teaching option students must complete twelve (12) units of Conference Courses.
- University Thesis option students must complete twelve (12) units of Conference Courses; one conference course in the general area of the thesis topic. The same course number may be taken more than once if the content is significantly different.
- HIST 6100 - Conference Course in Ancient and Medieval History *Units: 4*
- HIST 6200 - Conference Course in European History *Units: 4*
- HIST 6300 - Conference Course in Asian and Middle Eastern History *Units: 4*
- HIST 6400 - Conference Course in United States History *Units: 4*

Electives (8-12)

Eight (8) to twelve (12) units of upper division or graduate courses in History, depending on choice of option.

- Generalist option students must take twelve (12) units of electives.
 - Public History option students must take eight (8) units of electives and may select, with the approval of the Public History and Internship Coordinator and the Graduate Coordinator, courses in other disciplines specific to their professional goals.
 - Teaching option students must take eight (8) units of electives.
 - University Thesis option students must take twelve (12) units of electives.
- All students may substitute HIST 6901 - Internship in Public History and/or HIST 6900 - Independent Study for 4-8 units of electives, with approval of the Graduate Coordinator.

Option Requirements (4-12 units)

Students must select one of the options outlined below. Students are required to consult with the Graduate Coordinator regarding the selection of their conference courses and electives above, and for guidance in obtaining required approval for their chosen capstone project.

- History, Generalist Option, M.A.
- History, Public History Option, M.A.

- History, Teaching Option, M.A.
- History, University Thesis Option, M.A.

Public History Option

Required courses:

Complete one (1) of the two courses below:

- HIST 4032 - Introduction to Public History *Units: 4*
or approved alternative
- HIST 6901 - Internship in Public History *Units: 1-5*

Capstone Experience:

Complete 1-4 units as prescribed by your faculty mentor.

- HIST 6899 - Project *Units: 1-4* under supervision of faculty mentor.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

History, Teaching Option, M.A.

Department & Faculty Information

History (M.A.) 45 units

Program Description

The Master of Arts degree in History is designed to meet the varied needs and interests of students seeking an advanced degree in history. The program educates students in advanced skills in historical research, writing, interpretation and research, and provides opportunities for training in teaching and public history. Four options permit students to plan their coursework to best suit their goals within the overall program requirements and the range of courses offered.

The program includes graduate course offerings in historical research and historiography, conference (seminar) courses, undergraduate or graduate elective units, and a culminating master's project. Elective units may be taken in other fields with the approval of the graduate coordinator. The master's project may be a university thesis, examinations in major and minor fields, a public history project or a graduate teaching project, depending on the option chosen.

Because the majority of students in the master's program are employed full-time during the day, graduate courses are offered in the evening, usually on a one-night-a-week basis, in fall, winter, and spring quarters. This schedule allows students time to complete regular assignments, carry on research, and make regular progress toward the M.A. degree.

Student Learning Outcomes

Students graduating with an M.A. in History from Cal State East Bay will be able to:

1. possess advanced knowledge of United States history and the history of at least one other geographical region;
2. understand major arguments and themes in contemporary historiography, cross-cultural and interdisciplinary approaches to historical study, and humanistic values;
3. demonstrate familiarity with Bay Area research libraries, archives, special collections, and digital sources;
4. possess advanced writing and interpretive skills for analyzing both secondary and primary sources, and demonstrate advanced research abilities;
5. complete a major independent project in history;
6. observe the standards of academic integrity and attribution of sources, and practice the values of the historical profession, including ethics and standards for work in research libraries, on the Internet, at professional conferences, and at interviews for employment.

Career Opportunities

The master's program is especially suited to individuals interested in enhancing their careers as secondary school teachers, in qualifying as community college faculty, or training as historical editors, archivists, museum professionals and Bay Area or California historians. It is also useful for individuals interested in retraining for careers in history or in preparing for doctoral programs in history.

Faculty

Although most graduate students find it convenient to specialize in American and California history, the History Department faculty also includes specialists in European, Asian, and Latin American history. Qualified graduate students may usually carry out research and specialize in these areas as well. The full-time faculty are professional scholars, widely published in their respective fields and active in regional and national historical associations. The department has many years' experience in advising and training master's students in history.

Option Areas

All History graduate students may complete their degrees with culminating examinations in a major and a minor field, selected in consultation with their graduate committees. Students may also choose one of three other options: Teaching, Public History, or University Thesis. These options are distinguished chiefly by their capstone projects, but the Teaching and Public History options also include courses

especially designed for the field. Students must apply to the department for permission to complete their programs in any of the three options.

HIST 6010 and 6030

All graduate students are required to take HIST 6010 and HIST 6030. These two important seminars provide students with first-hand experience in primary source research in Bay Area collections and libraries and on the Internet, and with advanced knowledge of trends in the study of historical interpretation and writing, cross-cultural and interdisciplinary approaches to history, humanistic values in history and ethical standards. Students are urged to take these two courses in their first year of graduate study. Proficiency in information literacy is required for each course.

Distinctive Features

Research opportunities in Bay Area and California history abound at the University of California, Berkeley; the Bancroft Library; the National Archives at San Bruno; and numerous private collections in the region. The University Library provides excellent reference, Internet, and interlibrary loan services and contains substantial print and microfilm holdings.

Internships

History graduate students are encouraged to gain experience in applied history through internships at historical agencies in the Bay Area, depending on availability. Internships, like all formal appointments, entail an application process and interview. Internships are nearly always non-paying, but all graduate students are eligible to enroll in up to 4 units of HIST 6901, as a substitution for an elective in the program (see "Electives" below).

Readerships

Pending annual funding, students may also acquire experience in lower-division teaching through paid Readerships, upon application to the History Department.

Scholarships

Qualified history graduate students are eligible for graduate financial aid through the loan and fellowship programs administered by the Financial Aid Office. Small scholarships, pending available funds, are awarded annually to assist graduate students in completing their master's projects.

Admission

Admission to the master's program generally requires a B.A. degree major in History, or the equivalent, and a minimum GPA of 3.0 ("B") in the last two years of undergraduate work and 3.25 ("B+") in history. A one-page statement of purpose, a writing sample, and two letters of recommendation must accompany applications. In addition, applicants must submit their scores on the Graduate Record Exam (GRE) to the History Department office. Interested students with degrees in related disciplines, such as American Studies, Ethnic Studies, Political Science, Art or Theater History, and Literature, and suitable academic backgrounds in history are encouraged to apply but will be required to complete prerequisite coursework in history.

Students without necessary background in research or writing may also be admitted to the program as "Conditionally Classified Graduate" students with the requirement that they complete HIST 4030 and/or HIST 4031 at a specified grade level before being admitted to "Classified Graduate" status. Students meeting all admissions requirements, and who have satisfied the University Writing Skills Requirement, are eligible to be admitted as "Classified Graduate" students. Applicants should consult with the History Graduate Coordinator for advising. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Upper Division Courses Acceptable for the Master's Degree

All History courses in the 3000-4000 series except HIST 3400, HIST 4030, and HIST 4031 are acceptable courses in a master's program.

Advancement to Candidacy

In addition students must meet the requirements of Advancement to Candidacy confirming that a student is prepared to finish the degree and is recommended as a degree candidate. A Classified Graduate student in good standing is eligible to be advanced to candidacy for the master's degree after:

1. completing 12 quarter units applicable to the degree program
2. completing HIST 6010 and HIST 6030
3. submitting a proposal for the Master's thesis, project, or two fields of examination to the Graduate Committee
4. obtaining the Graduate Coordinator's approval of the student's committee, comprised of at least two faculty members.

Degree Requirements

The Master of Arts degree in History consists of 45 units. Each of the four options in the master's program requires a prescribed program of 45 units listed below. Reading proficiency in a foreign language is strongly encouraged, especially for those planning to pursue doctoral degrees or research careers.

Core Courses (13 units)

- HIST 6010 - Seminar in History *Units: 5*
- HIST 6030 - Graduate Historiography *Units: 4*
- HIST 6050 - History Graduate Portfolio *Units: 4*

Conference Courses (12-16 units)

Complete three to four conference courses, depending on choice of option (below) in at least two different areas.

- Generalist options students must complete sixteen (16) units of Conference Courses.
- Public History option students must twelve (12) units of Conference Courses.
- Teaching option students must complete twelve (12) units of Conference Courses.

- University Thesis option students must complete twelve (12) units of Conference Courses; one conference course in the general area of the thesis topic. The same course number may be taken more than once if the content is significantly different.
- HIST 6100 - Conference Course in Ancient and Medieval History *Units: 4*
- HIST 6200 - Conference Course in European History *Units: 4*
- HIST 6300 - Conference Course in Asian and Middle Eastern History *Units: 4*
- HIST 6400 - Conference Course in United States History *Units: 4*

Electives (8-12)

Eight (8) to twelve (12) units of upper division or graduate courses in History, depending on choice of option.

- Generalist option students must take twelve (12) units of electives.
 - Public History option students must take eight (8) units of electives and may select, with the approval of the Public History and Internship Coordinator and the Graduate Coordinator, courses in other disciplines specific to their professional goals.
 - Teaching option students must take eight (8) units of electives.
 - University Thesis option students must take twelve (12) units of electives.
- All students may substitute HIST 6901 - Internship in Public History and/or HIST 6900 - Independent Study for 4-8 units of electives, with approval of the Graduate Coordinator.

Option Requirements (4-12 units)

Students must select one of the options outlined below. Students are required to consult with the Graduate Coordinator regarding the selection of their conference courses and electives above, and for guidance in obtaining required approval for their chosen capstone project.

- History, Generalist Option, M.A.
- History, Public History Option, M.A.
- History, Teaching Option, M.A.
- History, University Thesis Option, M.A.

Teaching Option

Required course (4 units)

- HIST 4033 - Introduction to Teaching History *Units: 4*

Capstone Experience (8 units)

- HIST 6900 - Independent Study *Units: 1-4*
- HIST 6899 - Project *Units: 1-4* under supervision of faculty mentor.

Course Descriptions

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Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

History, University Thesis Option, M.A.

Department & Faculty Information

History (M.A.) 45 units

Program Description

The Master of Arts degree in History is designed to meet the varied needs and interests of students seeking an advanced degree in history. The program educates students in advanced skills in historical research, writing, interpretation and research, and provides opportunities for training in teaching and public history. Four options permit students to plan their coursework to best suit their goals within the overall program requirements and the range of courses offered.

The program includes graduate course offerings in historical research and historiography, conference (seminar) courses, undergraduate or graduate elective units, and a culminating master's project. Elective units may be taken in other fields with the approval of the graduate coordinator. The master's project may be a university thesis, examinations in major and minor fields, a public history project or a graduate teaching project, depending on the option chosen.

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Although most graduate students find it convenient to specialize in American and California history, the History Department faculty also includes specialists in European, Asian, and Latin American history. Qualified graduate students may usually carry out research and specialize in these areas as well. The full-time faculty are professional scholars, widely published in their respective fields and active in regional and national historical associations. The department has many years' experience in advising and training master's students in history.

Option Areas

All History graduate students may complete their degrees with culminating examinations in a major and a minor field, selected in consultation with their graduate committees. Students may also choose one of three other options: Teaching, Public History, or University Thesis. These options are distinguished chiefly by their capstone projects, but the Teaching and Public History options also include courses especially designed for the field. Students must apply to the department for permission to complete their programs in any of the three options.

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Readerships

Pending annual funding, students may also acquire experience in lower-division teaching through paid Readerships, upon application to the History Department.

Scholarships

Qualified history graduate students are eligible for graduate financial aid through the loan and fellowship programs administered by the Financial Aid Office. Small scholarships, pending available funds, are awarded annually to assist graduate students in completing their master's projects.

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Admission to the master's program generally requires a B.A. degree major in History, or the equivalent, and a minimum GPA of 3.0 ("B") in the last two years of undergraduate work and 3.25 ("B+") in history. A one-page statement of purpose, a writing sample, and two letters of recommendation must accompany applications. In addition, applicants must submit their scores on the Graduate Record Exam (GRE) to the History Department office. Interested students with degrees in related disciplines, such as American Studies, Ethnic Studies, Political Science, Art or Theater History, and Literature, and suitable academic backgrounds in history are encouraged to apply but will be required to complete prerequisite coursework in history.

Students without necessary background in research or writing may also be admitted to the program as "Conditionally Classified Graduate" students with the requirement that they complete HIST 4030 and/or HIST 4031 at a specified grade level before being admitted to "Classified Graduate" status. Students meeting all admissions requirements, and who have satisfied the University Writing Skills Requirement, are eligible to be admitted as "Classified Graduate" students. Applicants should consult with the History Graduate Coordinator for advising. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Upper Division Courses Acceptable for the Master's Degree

All History courses in the 3000-4000 series except HIST 3400, HIST 4030, and HIST 4031 are acceptable courses in a master's program.

Advancement to Candidacy

In addition students must meet the requirements of Advancement to Candidacy confirming that a student is prepared to finish the degree and is recommended as a degree candidate. A Classified Graduate student in good standing is eligible to be advanced to candidacy for the master's degree after:

1. completing 12 quarter units applicable to the degree program
2. completing HIST 6010 and HIST 6030
3. submitting a proposal for the Master's thesis, project, or two fields of examination to the Graduate Committee
4. obtaining the Graduate Coordinator's approval of the student's committee, comprised of at least two faculty members.

Degree Requirements

The Master of Arts degree in History consists of 45 units. Each of the four options in the master's program requires a prescribed program of 45 units listed below. Reading proficiency in a foreign language is strongly encouraged, especially for those planning to pursue doctoral degrees or research careers.

Core Courses (13 units)

- HIST 6010 - Seminar in History *Units: 5*
- HIST 6030 - Graduate Historiography *Units: 4*
- HIST 6050 - History Graduate Portfolio *Units: 4*

Conference Courses (12-16 units)

Complete three to four conference courses, depending on choice of option (below) in at least two different areas.

- Generalist options students must complete sixteen (16) units of Conference Courses.
- Public History option students must twelve (12) units of Conference Courses.
- Teaching option students must complete twelve (12) units of Conference Courses.
- University Thesis option students must complete twelve (12) units of Conference Courses; one conference course in the general area of the thesis topic. The same course number may be taken more than once if the content is significantly different.
- HIST 6100 - Conference Course in Ancient and Medieval History *Units: 4*
- HIST 6200 - Conference Course in European History *Units: 4*
- HIST 6300 - Conference Course in Asian and Middle Eastern History *Units: 4*
- HIST 6400 - Conference Course in United States History *Units: 4*

Electives (8-12)

Eight (8) to twelve (12) units of upper division or graduate courses in History, depending on choice of option.

- Generalist option students must take twelve (12) units of electives.
 - Public History option students must take eight (8) units of electives and may select, with the approval of the Public History and Internship Coordinator and the Graduate Coordinator, courses in other disciplines specific to their professional goals.
 - Teaching option students must take eight (8) units of electives.
 - University Thesis option students must take twelve (12) units of electives.
- All students may substitute HIST 6901 - Internship in Public History and/or HIST 6900 - Independent Study for 4-8 units of electives, with approval of the Graduate Coordinator.

Option Requirements (4-12 units)

Students must select one of the options outlined below. Students are required to consult with the Graduate Coordinator regarding the selection of their conference courses and electives above, and for guidance in obtaining required approval for their chosen capstone project.

- History, Generalist Option, M.A.
- History, Public History Option, M.A.

- History, Teaching Option, M.A.
- History, University Thesis Option, M.A.

University Thesis Option

Capstone Experience: University Thesis.

Under supervision of faculty mentor, University Thesis option students must complete the following course:

- HIST 6910 - University Thesis *Units: 1-8*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Asian Studies Minor

Department & Faculty Information

The minor is designed to complement the student's major by grouping courses taken as part of the major, courses taken to fulfill General Education requirements, and free electives into a package emphasizing Asia. A minimum of 18 units must be taken outside the student's major.

Minor Requirements (32 units)

Students with broader interests in Asia can build into their curriculum a Minor in Asian Studies consisting of eight courses (32 units).

Although the Minor in Asian Studies does not include a foreign language requirement, one year of an Asian language may be counted toward fulfillment of the minor requirements. Students wishing to go on to graduate school in Asian Studies are strongly encouraged to begin their language study as part of their undergraduate training. Mandarin Chinese, Japanese, Vietnamese and Filipino are offered on campus.

It is also possible to include courses taken at the universities that are associated with the International Programs of the California State University system; these opportunities presently exist in China, Japan, Korea and Taiwan and others are being considered.

Thirty-two units (eight courses) may be chosen from the following list. No more than 12 units (three courses) in one department. At least 12 upper division units are required.

- ANTH 3545 - China *Units: 4*
- GEOG 3540 - China and Japan *Units: 4*
- GEOG 3550 - Geography of Southeast Asia *Units: 4*
- HIST 3301 - Modern Asia *Units: 4*
- HIST 3311 - Traditional China *Units: 4*
- HIST 3312 - Modern China *Units: 4*
- HIST 3313 - People's Republic of China *Units: 4*
- HIST 3322 - Early Japan *Units: 4*
- HIST 3325 - Postwar Japan *Units: 4*
- MLL 1601 - Elementary Mandarin Chinese I *Units: 4*
- MLL 1602 - Elementary Mandarin Chinese II *Units: 4*
- MLL 1603 - Elementary Mandarin Chinese III *Units: 4*
- MLL 1651 - Elementary Filipino I *Units: 4*
- MLL 1652 - Elementary Filipino II *Units: 4*
- MLL 1653 - Elementary Filipino III *Units: 4*
- MLL 1751 - Elementary Vietnamese I *Units: 4*
- MLL 1752 - Elementary Vietnamese II *Units: 4*
- MLL 1753 - Elementary Vietnamese III *Units: 4*
- MLL 1801 - Elementary Japanese I *Units: 4*
- MLL 1802 - Elementary Japanese II *Units: 4*
- MLL 1803 - Elementary Japanese III *Units: 4*
- MLL 2831 - Asian Thought *Units: 4*
- PHIL 1401 - Religions of the World *Units: 4*
- PHIL 2605 - Introduction to Asian Religion *Units: 4*
- PHIL 3403 - Religions of the East *Units: 4*
- PHIL 3410 - Comparative Themes in Eastern and Western Philosophy *Units: 4*
- POSC 3204 - Political Systems of Asia *Units: 4*

Although not part of the courses that count in the minor, Asian courses in Kinesiology and Physical Education are a much appreciated supplement to the Asian Studies program. Yoga, Judo, and Karate combine the wisdom of the body with self-understanding, and enhance learning skills, general alertness, and fitness.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

History Minor

Department & Faculty Information

Minor Requirements (32 units)

The minor consists of 32 units. HIST 3400 may not be counted towards the minor.

I. Lower Division (16 units)

- HIST 1014 - World Civilizations I *Units: 4*
or
- HIST 1017 - Ancient World Civilizations *Units: 4*
- HIST 1015 - World Civilizations II *Units: 4*
- HIST 1016 - World Civilizations III *Units: 4*
- HIST 2010 - Introduction to History *Units: 4*

II. Upper Division (16 units)

A. Historical Writing

- HIST 3010 - Historical Writing *Units: 4*

B. Area Requirements

A minimum of four units of upper division History courses in each of the following areas: (1) Europe, (2) United States, and (3) Latin America or Asia (12)

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Urban Studies Minor

Department & Faculty Information

Minor Requirements (24 units)

The minor in Urban Studies consists of a minimum of 24 units of work selected from the following lists of courses. No more than 9 units of work in a single department may be applied to the minor. With the approval of an Urban Studies advisor, a maximum of 2 other appropriate courses, including independent study or directed research, may be substituted for those below.

- ANTH 4310 - Field Course in Ethnography *Units: 5*
- CRJA 4700 - Community Based Corrections *Units: 4*
- ECON 3370 - Public Sector Economics *Units: 4*
- ECON 3500 - Urban Economics *Units: 4*
- ENVT 4100 - Environmental Impact Analysis *Units: 4*
- ENVT 4300 - Environmental Field Studies *Units: 5*
- ES 3290 - Community Development *Units: 4*
- GEOG 4325 - Field Course in Cultural-Urban Geography *Units: 4*
- HIST 3503 - History of the San Francisco Bay Area *Units: 4*
- POSC 3120 - State and Local Politics and Government *Units: 4*
- POSC 3130 - Urban Politics *Units: 4*
- POSC 3150 - Politics of California *Units: 4*
- POSC 3800 - Public Policy Analysis *Units: 4*
- PUAD 4800 - Public Administration and Society *Units: 4*
- REC 4300 - Facilities Management and Administration in Leisure *Units: 4*
- SOC 3520 - Sociology of Race and Ethnic Relations *Units: 4*
- SOC 3700 - Introduction to Social Services *Units: 4*
- SOC 3710 - Social Policy *Units: 4*
- SOC 4450 - Urban Sociology *Units: 4*

Note:

Any new or transfer course judged by an Urban Studies advisor to have a significant urban studies content.

At least 18 units in the minor must be outside the student's major department

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Certificate (Undergraduate) Program

Public History Certificate

Department & Faculty Information

The certificate consists of 28 units.

A. Prerequisites:

- HIST 2010 - Introduction to History *Units: 4*
- HIST 3010 - Historical Writing *Units: 4* (Note: may be waived with permission of the Public History and Internship Coordinator)

B. Core Courses (12 units)

- HIST 3503 - History of the San Francisco Bay Area *Units: 4*
- HIST 4010 - History Internship *Units: 4*
- HIST 4032 - Introduction to Public History *Units: 4*

C. Electives (16 units)

(Substitutions may be made with permission of the Public History and Internship Coordinator)

- HIST 3500 - History of California *Units: 4 **
*or HIST 3511 The American West Units: 4**
- HIST 3505 - California Environmental History *Units: 4*
or HIST 3535 American Indian History Units: 4
or HIST 3538 American Indians in the 20th Century Units: 4
- Skills Course in Community Studies or Landscape Studies (4), as recommended by the Public History and Internship Coordinator.
- Skills Course in Practical Application (4), as recommended by the Public History and Internship Coordinator.

Note

*Students preferring to focus outside the Bay Area may substitute other electives for HIST 3500/3511 with the permission of the Public History and Internship Coordinator.

Course Descriptions

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Department of Hospitality, Recreation and Tourism

The Department Office is located on the 1st Floor of the PE building, Room 130.

Hours Open: 8:00 am to 5:00 pm Monday through Friday.

Dept. Phone: (510) 885-3043

Faculty

Professor Emerita

Melany Spielman, Ph.D. University of Oregon

Professors

Mary F. Fortune, Ed.D. University of San Francisco

Zaher Hallab, Ph.D. Virginia Polytechnic Institute and State University

Doris D. Yates, Ph.D. Michigan State University

Associate Professors

Christopher Chamberlain (Chair), D.M. University of Phoenix

Nancy B. White, Ph.D. University of New Mexico

Assistant Professors

Saehya Ann, Ph.D. Texas Tech University

Erick Kong, M.S., California State University, East Bay

Thomas Padron, Ph.D. Capella University

Semih Yilmaz, Ph.D. University of Florida

Lecturers

Kenneth L. Hanley, M.S. California State University, Hayward

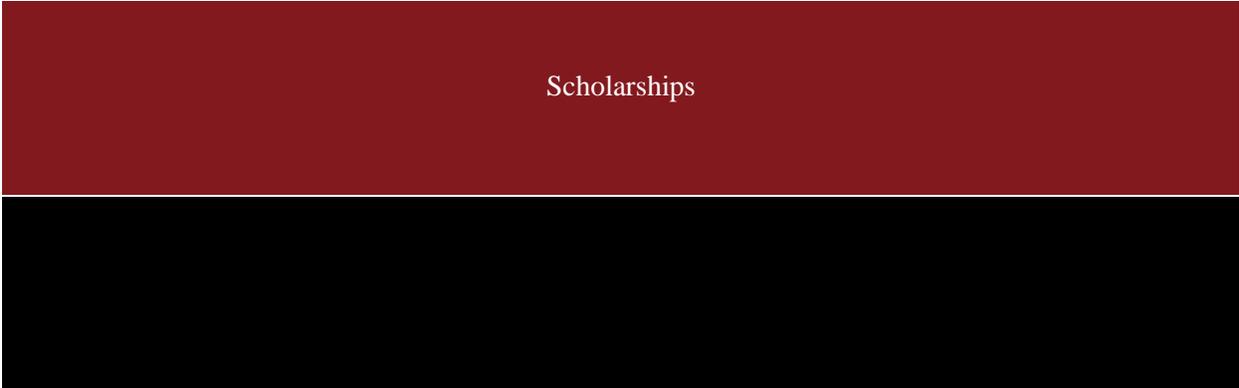
Margaret Zeiger, M.S., Golden Gate University

Janeen Hill, M.S., Guelph University

Lisa Smusz, M.F.T., California State University, East Bay

Mission Statement:

Our mission is to educate and prepare leaders who contribute to the quality of life of individuals and our communities, both locally and globally, through Hospitality, Recreation and Tourism.



Scholarships

Bachelor of Science

Hospitality and Tourism, B.S.

Department & Faculty Information

Hospitality and Tourism (B.S.) 180 units

Program Description

The Department of Hospitality, Recreation and Tourism prepares students to become professionals in our dynamic, growing and exciting industry. Travel and tourism has become available to more of the world's population and the demand for hospitality managers is growing very rapidly. A degree in Hospitality and Tourism provides our students with the knowledge they need about the industry with its various sectors and functional areas as well as its dynamic environment. Combined with work experience, this preparation will provide many opportunities for graduates in hospitality and tourism companies around the world. The industry is looking for smart, service-oriented and dedicated individuals to help lead growth in this booming environment.

Our program focuses on people and problem-solving skills, and creativity needed to be an excellent hospitality and tourism professional. We strive to meet employers' needs and wants who seek individuals with strong human relations, customer service, and communication skills. We want to instill that "can do attitude" employers are seeking. This major is great for anyone seeking a non-routine career that features variety, complexity and excitement.

This career provides opportunities to grow and improve your life while improving the experiences of the people you serve. Many jobs offer varied responsibilities where life is exciting, interesting and every day is different through meeting and serving people from all over the world. The Hospitality, Leisure, and Tourism sector is the world's largest employer and employment opportunities abound all over the globe.

Student Learning Outcomes

Students who graduate with a B.S. in Hospitality and Tourism will be able to:

1. Analyze and generate effective, sustainable solutions based on evidence and technology and provide relevant references.
2. Demonstrate significant knowledge of effective leadership and teamwork strategies, management skills, and evaluation of service quality and consumer needs through investigation and practical experience.
3. Articulate clearly (speak and write) ethical, philosophical, historical, and current practices and administrative foundations of the profession.
4. Demonstrate techniques that contribute to a culture of dignity and respect in the workplace.

Career Possibilities

- Food and Beverage Manager
- Convention Manager
- Guest Relations Manager
- Hospitality Sales and Marketing Manager
- Rooms Division Manager
- Front Desk Manager
- Executive Housekeeper
- Event Manager
- Meetings and Conference Manager
- Resort Manager
- Country Club Manager
- Foodservice Manager
- Cruise Ship Manager
- Conventions and Visitors Bureau
- Food Supplier
- Commercial Recreation Entrepreneur
- Eco Tourism Professional

Features

Our student-centered department has programs designed for both on campus and online students. Our courses are offered in three formats:

- hybrid (one day a week in-class instruction with the remainder online),
- all online, and
- in-class instruction.

We are dedicated to helping you realize your dreams even if you work full-time. Our friendly and accessible faculty and staff members will advise you so that you can meet all requirements in the most efficient manner. We have excellent industry contacts and can help connect you with professional part-time jobs to build your resume while in school. All our faculty members have been Leisure and Hospitality industry professionals.

Major Requirements 98 units

Consult an advisor in your major department for clarification and interpretation of your major requirements at least three times a year.

- The core major consists of 98 units;

- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (10 units)

Hospitality and Tourism B.S. degree and the Recreation B.S. degree share the same lower division core requirements:

- HOS 1100 - Introduction to Hospitality and Tourism *Units: 4*
- REC 1000 - Introduction to Recreation *Units: 4*
- REC 2050 - Computers in Hospitality, Recreation and Tourism *Units: 2*

Upper Division Core (30 units)

Hospitality and Tourism B.S. degree and the Recreation B.S. degree share the same upper division core requirements:

- REC 3000 - Philosophy of Leisure *Units: 4*
- REC 3010 - Service Learning in Hospitality, Recreation and Tourism 2 *Units: 4*
- REC 3300 - Leadership in Hospitality, Recreation and Tourism *Units: 4*
- REC 3701 - Evaluation and Research in Hospitality, Recreation and Tourism *Units: 4*
- REC 4050 - Social Justice in Hospitality, Recreation and Tourism *Units: 4*
- REC 4100 - Professional Issues in Hospitality, Recreation and Tourism *Units: 2*
- REC 4501 - Special Events Management 1 *Units: 4*
- HOS 4502 - Special Events Management 2 *Units: 4*

Hospitality and Tourism Requirements 58 units

To complete the Hospitality and Tourism B.S. degree the following units are required:

- **Note:** *Students must complete 1000 hours of paid or volunteer experience before doing their internship.*

Required Courses

Fifty-four (54) units required:

- HOS 4505 - Hospitality Information Technology *Units: 4*
- HOS 4510 - Lodging Management *Units: 4*
- HOS 4520 - Promotion of Leisure and Hospitality *Units: 4*
- HOS 4530 - Principles of Meetings, Conventions and Special Events *Units: 4*
- HOS 4540 - Fiscal Leadership for Operational Managers *Units: 4*
- HOS 4560 - Food and Beverage Management *Units: 4*
- HOS 4570 - Dimensions in Tourism *Units: 4*
- HOS 4590 - Hospitality Law *Units: 4*
- HOS 4901 - Hospitality Internship Placement *Units: 2*

- HOS 4912 - Hospitality Internship and Senior Project *Units: 4-12*
- MKTG 3495 - Business Communication *Units: 4*
- REC 3510 - Management and Supervision in Hospitality, Recreation and Tourism
Units: 4

Elective Courses

Four (4) units minimum are required from the following list:

- HOS 3999 - Issues in Hospitality and Tourism *Units: 4* (Course offered online)
- HOS 4550 - Global Tourism *Units: 4* (Course offered online)
- ACCT 2701 - Legal Environment of Business *Units: 4*
- MGMT 3600 - Theories of Management *Units: 4*
- MGMT 3610 - Strategic Human Resources Management *Units: 4*
- MGMT 3614 - Organizational Behavior *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*
- PSYC 1000 - General Psychology *Units: 5*
- PSYC 3520 - Interpersonal Processes *Units: 4* (prerequisite required)
- PSYC 3540 - Groups and Organizations *Units: 4* (prerequisite required)
- PSYC 3550 - Social Influence and Change *Units: 4* (prerequisite required)
- REC 2100 - Leadership Principles in Action *Units: 4*
- REC 2500 - Service Learning in Leadership, Hospitality and Leisure 1 *Units: 1-4*
(Course offered online)
- REC 3200 - Wellness Through Leisure *Units: 4* (Course offered online)
- REC 3202 - Women and Leisure *Units: 4* (Course offered online)
- REC 3305 - Outdoor Living Skills *Units: 4* (Course offered online)
- REC 3401 - Leadership of Small Groups *Units: 4* (Course offered online)
- REC 3999 - Issues in Hospitality and Leisure Services *Units: 1-4* (Course offered online)
- REC 4900 - Independent Study *Units: 1-4* (Course offered online)

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Recreation, Recreation Management Option, B.S.

Department & Faculty Information

Recreation (B.S.) 180 units

Program Description

The Department of Hospitality, Recreation, and Tourism prepares students graduate as leaders in the fields of hospitality, recreation management, recreation therapy, and tourism. Through experiential learning students apply their knowledge to seek and develop sustainable solutions that make a difference in the world. Experiences include course projects, event planning, tours, site visits, service learning, and internship experiences. The program supports the development of students' leadership, communication, technical, data-driven decision-making, and critical thinking skills through immersion in industry relevant curriculum. Curriculum includes social justice, management, leadership, evaluation and research, event planning classes and more. Graduates of the program enjoy opportunities for career advancement, contribute to the quality of life of participants, interact with various cultures, and increase the positive impact of the recreation industry. They are employed at for-profit, nonprofit, and governmental organizations throughout California, the United States, and internationally.

Student Learning Outcomes

Students who graduate with a B.S. in Recreation from Cal State East Bay will be able to:

- Critical Thinking - Analyze and generate effective, sustainable solutions based on evidence and technology and provide relevant references.
- Leadership - Demonstrate significant knowledge of effective leadership and teamwork strategies, management skills and evaluation of service quality and consumer needs through investigation and practical experience.
- Professional Knowledge - Articulate clearly (speak and write) ethical, philosophical, historical and current practices and administrative foundations of the profession.
- Social Justice - Demonstrate techniques that contribute to a culture of dignity and respect in the workplace.

Career Possibilities

- Aquatic Management
- Camp Management
- Campus Recreation
- Correctional Facilities
- Cultural Arts Management
- Event Planning
- Golf Course Management
- Health and Wellness Centers
- High Adventure Programs
- Mental Health Facilities
- Military Recreation
- Nonprofit Management
- Outdoor Recreation Management
- Park Management
- Recreation Therapy
- Recovery Treatment Center

- Recreation Management
- Rehabilitation Centers
- Skilled Nursing Facilities
- Sports Management
- Senior Services
- Sustainable Management
- Venue Management
- Wedding Planning
- Youth Development

Features

The department's programs are student-centered and specifically designed for both on campus and online students. Our courses are offered in three formats:

- Online
- Hybrid
- On ground

We are dedicated to assisting you with realizing your dreams even if you work fulltime. Our educated, experienced and passionate faculty and staff members will work together to advise you so that you can meet all requirements in the most efficient manner. We have excellent industry contacts and can help connect you with professional part-time jobs to build your resume while in school.

Major Requirements (B.S.) 95-102 units

The B.S. degree requires a total of 180 units.

- The core major consists of 40 units;
- the Recreation Management Option consists of 62 units;
- the Recreation Therapy Option consists of 55 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*
Note: Consult an advisor in your major department for clarification and interpretation of your major requirements. Some courses require prerequisites.

Lower Division Core (10 units)

Hospitality and Tourism B.S. degree and the Recreation B.S. degree share the same lower division core requirements:

- HOS 1100 - Introduction to Hospitality and Tourism *Units: 4*
- REC 1000 - Introduction to Recreation *Units: 4*
- REC 2050 - Computers in Hospitality, Recreation and Tourism *Units: 2*

Upper Division Core (30 units)

Hospitality and Tourism B.S. degree and the Recreation B.S. degree share the same upper division core requirements:

- HOS 4502 - Special Events Management 2 *Units: 4*

- REC 3000 - Philosophy of Leisure *Units: 4*
- REC 3010 - Service Learning in Hospitality, Recreation and Tourism 2 *Units: 4*
- REC 3300 - Leadership in Hospitality, Recreation and Tourism *Units: 4*
- REC 3701 - Evaluation and Research in Hospitality, Recreation and Tourism *Units: 4*
- REC 4050 - Social Justice in Hospitality, Recreation and Tourism *Units: 4*
- REC 4100 - Professional Issues in Hospitality, Recreation and Tourism *Units: 2*
- REC 4501 - Special Events Management 1 *Units: 4*

Option Requirements

Recreation B.S. students are required to choose an option to complete the degree:

- Recreation, Recreation Management Option, B.S.
- Recreation, Recreation Therapy Option, B.S.

Recreation Management Option (62 units)

The Recreation Management Option prepares students for management and leadership professional positions in public settings where increasing the quality of life through people, parks and programs is the main objective. Jobs include program directors and coordinators for sports, after -school, seniors, youth development, aquatics, adult services, preschool and teens. Many of our graduates are upper management leaders in East Bay leisure services organizations including Concord, Livermore, Oakland, Pleasanton, San Ramon, and East Bay Regional Parks (a small sample).

Job duties are varied and are focused on providing quality of life services in municipal, special districts, county, state and national park and recreation organizations. Many majors also work in the non-profit sector for YMCA, Boys and Girls Club and other youth organizations. Emerging opportunities with active senior living organizations owned and managed by hospitality leaders like Marriott and Hilton offer the chance to increase the quality of life of our aging population.

Required Courses

Forty-six (46) units required:

- HOS 4520 - Promotion of Leisure and Hospitality *Units: 4*
- HOS 4530 - Principles of Meetings, Conventions and Special Events *Units: 4*
- REC 2200 - Programming in Leisure Services *Units: 4*
- REC 3401 - Leadership of Small Groups *Units: 4*
- REC 3510 - Management and Supervision in Hospitality, Recreation and Tourism *Units: 4*
- REC 4000 - Administration and Budgeting in Recreation *Units: 4*
- REC 4011 - Youth Development through Leisure *Units: 4*
- REC 4300 - Facilities Management and Administration in Leisure *Units: 4*
- REC 4896 - Recreation Management Internship Placement *Units: 2*
- REC 4910 - Recreation Management Internship and Senior Project *Units: 4-12*

Electives

Choose 16 units of elective courses:

- HDEV 3800 - Human Development and Interaction *Units: 4*
- HOS 4530 - Principles of Meetings, Conventions and Special Events *Units: 4*
- HOS 4540 - Fiscal Leadership for Operational Managers *Units: 4*
- HOS 4550 - Global Tourism *Units: 4*
- HOS 4560 - Food and Beverage Management *Units: 4*
- MKTG 3495 - Business Communication *Units: 4*
- PSYC 3420 - Stress and Coping *Units: 4*
- PSYC 3500 - Social Psychology *Units: 4*
- PSYC 3520 - Interpersonal Processes *Units: 4*
- PSYC 3540 - Groups and Organizations *Units: 4*
- PSYC 3550 - Social Influence and Change *Units: 4*
- PSYC 4410 - Abnormal Psychology *Units: 4*
- PSYC 4430 - Developmental Psychology *Units: 4*
- REC 2100 - Leadership Principles in Action *Units: 4*
- REC 2500 - Service Learning in Leadership, Hospitality and Leisure 1 *Units: 1-4*
- REC 3200 - Wellness Through Leisure *Units: 4*
- REC 3202 - Women and Leisure *Units: 4*
- REC 3401 - Leadership of Small Groups *Units: 4*
- REC 3999 - Issues in Hospitality and Leisure Services *Units: 1-4*
- REC 4011 - Youth Development through Leisure *Units: 4*
- REC 4600 - Recreation Therapy Documentation and Assessment *Units: 4*
- REC 4601 - Recreation Therapy Treatment and Program Planning *Units: 4*
- REC 4602 - Recreation Therapy Processes *Units: 4*
- REC 4603 - Recreation Therapy Programming *Units: 4*
- REC 4605 - Recreation Therapy: Treatment and Diagnostic Groups *Units: 4*
- REC 4900 - Independent Study *Units: 1-4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Recreation, Recreation Therapy Option, B.S.

Department & Faculty Information

Recreation (B.S.) 180 units

Program Description

The Department of Hospitality, Recreation, and Tourism prepares students graduate as leaders in the fields of hospitality, recreation management, recreation therapy, and tourism. Through experiential learning students apply their knowledge to seek and develop sustainable solutions that make a difference in the world. Experiences include course projects, event planning, tours, site visits, service learning, and internship experiences. The program supports the development of students' leadership, communication, technical, data-driven decision-making, and critical thinking skills through immersion in industry relevant curriculum. Curriculum includes social justice, management, leadership, evaluation and research, event planning classes and more. Graduates of the program enjoy opportunities for career advancement, contribute to the quality of life of participants, interact with various cultures, and increase the positive impact of the recreation industry. They are employed at for-profit, nonprofit, and governmental organizations throughout California, the United States, and internationally.

Student Learning Outcomes

Students who graduate with a B.S. in Recreation from Cal State East Bay will be able to:

- Critical Thinking - Analyze and generate effective, sustainable solutions based on evidence and technology and provide relevant references.
- Leadership - Demonstrate significant knowledge of effective leadership and teamwork strategies, management skills and evaluation of service quality and consumer needs through investigation and practical experience.
- Professional Knowledge - Articulate clearly (speak and write) ethical, philosophical, historical and current practices and administrative foundations of the profession.
- Social Justice - Demonstrate techniques that contribute to a culture of dignity and respect in the workplace.

Career Possibilities

- Aquatic Management
- Camp Management
- Campus Recreation
- Correctional Facilities
- Cultural Arts Management
- Event Planning
- Golf Course Management
- Health and Wellness Centers
- High Adventure Programs
- Mental Health Facilities
- Military Recreation
- Nonprofit Management
- Outdoor Recreation Management
- Park Management
- Recreation Therapy
- Recovery Treatment Center

- Recreation Management
- Rehabilitation Centers
- Skilled Nursing Facilities
- Sports Management
- Senior Services
- Sustainable Management
- Venue Management
- Wedding Planning
- Youth Development

Features

The department's programs are student-centered and specifically designed for both on campus and online students. Our courses are offered in three formats:

- Online
- Hybrid
- On ground

We are dedicated to assisting you with realizing your dreams even if you work fulltime. Our educated, experienced and passionate faculty and staff members will work together to advise you so that you can meet all requirements in the most efficient manner. We have excellent industry contacts and can help connect you with professional part-time jobs to build your resume while in school.

Major Requirements (B.S.) 95-102 units

The B.S. degree requires a total of 180 units.

- The core major consists of 40 units;
- the Recreation Management Option consists of 62 units;
- the Recreation Therapy Option consists of 55 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*
Note: Consult an advisor in your major department for clarification and interpretation of your major requirements. Some courses require prerequisites.

Lower Division Core (10 units)

Hospitality and Tourism B.S. degree and the Recreation B.S. degree share the same lower division core requirements:

- HOS 1100 - Introduction to Hospitality and Tourism *Units: 4*
- REC 1000 - Introduction to Recreation *Units: 4*
- REC 2050 - Computers in Hospitality, Recreation and Tourism *Units: 2*

Upper Division Core (30 units)

Hospitality and Tourism B.S. degree and the Recreation B.S. degree share the same upper division core requirements:

- HOS 4502 - Special Events Management 2 *Units: 4*

- REC 3000 - Philosophy of Leisure *Units: 4*
- REC 3010 - Service Learning in Hospitality, Recreation and Tourism 2 *Units: 4*
- REC 3300 - Leadership in Hospitality, Recreation and Tourism *Units: 4*
- REC 3701 - Evaluation and Research in Hospitality, Recreation and Tourism
Units: 4
- REC 4050 - Social Justice in Hospitality, Recreation and Tourism *Units: 4*
- REC 4100 - Professional Issues in Hospitality, Recreation and Tourism *Units: 2*
- REC 4501 - Special Events Management 1 *Units: 4*

Option Requirements

Recreation B.S. students are required to choose an option to complete the degree:

- Recreation, Recreation Management Option, B.S.
- Recreation, Recreation Therapy Option, B.S.

Recreation Therapy Option (55 units)

The Recreation Therapy option is designed to prepare students to work as allied health professionals with people who have special needs in clinical, residential, and community-based agencies. This option is specifically designed to meet the standards developed by the National Council for Therapeutic Recreation Certification (NCTRC) and the California Board of Recreation and Park Certification. Successfully completing this curriculum will provide students with knowledge competencies necessary to qualify for both the National and State Therapeutic Recreation Certification Exams. Our program is accredited by the California Board of Recreation and Park Certification.

Many graduates of this option are leaders in Recreation Therapy in the San Francisco Bay Area. They work in rehabilitation hospitals, drug treatment programs, mental health clinics and inpatient programs, state hospitals, long term care facilities, prisons and schools to name just a few.

Required Courses

Fifty-one (51) units required:

- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*
or
- BIOL 2011 - Anatomy and Physiology I *Units: 5*
- HDEV 3800 - Human Development and Interaction *Units: 4*
or
- PSYC 4420 - Developmental Psychology *Units: 4*
- PSYC 4410 - Abnormal Psychology *Units: 4*
- REC 3800 - Introduction to Recreation Therapy *Units: 4*
- REC 4600 - Recreation Therapy Documentation and Assessment *Units: 4*
- REC 4601 - Recreation Therapy Treatment and Program Planning *Units: 4*
- REC 4602 - Recreation Therapy Processes *Units: 4*

- REC 4604 - Recreation Therapy: Advancing the Profession *Units: 4*
- REC 4605 - Recreation Therapy: Treatment and Diagnostic Groups *Units: 4*
- REC 4897 - Recreation Therapy Internship Placement *Units: 2*
- REC 4911 - Recreation Therapy Internship and Senior Project *Units: 12*

Electives

One (1) course required:

- HDEV 3301 - Child Development *Units: 4*
- HDEV 3302 - Foundational Aspects of Adolescent Development *Units: 4*
- HDEV 3303 - Adult Development and Aging *Units: 4*
- HDEV 4110 - Child Cognitive Development *Units: 4*
- HSC 3300 - Health Care Systems in the U.S. *Units: 4*
- HSC 4010 - Research and Program Evaluation in Health Science *Units: 4*
- PSYC 3250 - Behavior Modification *Units: 4*
- PSYC 3420 - Stress and Coping *Units: 4*
- PSYC 3500 - Social Psychology *Units: 4*
- PSYC 3520 - Interpersonal Processes *Units: 4*
- PSYC 3540 - Groups and Organizations *Units: 4*
- PSYC 3550 - Social Influence and Change *Units: 4*
- REC 4603 - Recreation Therapy Programming *Units: 4*
- SOC 3419 - Death and Dying *Units: 4*
- SOC 3425 - Prejudice and Discrimination *Units: 4*
- SOC 3520 - Sociology of Race and Ethnic Relations *Units: 4*
- SOC 3720 - Human Behavior in the Social Environment *Units: 4*
- SOC 3730 - Juvenile Delinquency *Units: 4*
- SOC 3750 - Alcohol and Drug Abuse *Units: 4*
- SOC 4720 - Medical Sociology *Units: 4*
- SOC 4750 - Child Welfare *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Science

Recreation and Tourism, M.S.

Department & Faculty Information

Recreation and Tourism (M.S.) 45 units

Program Description

In our very diverse world, managing organizations is increasingly more complex. A Master's of Science in Recreation and Tourism will provide an in-depth to understanding of the fast moving, increasingly-complex challenges in the world of recreation. Through exploring the literature and theories, and how to scientifically gather data to make informed decisions, graduates will be better prepared for the world's legal, personal, and ethical dilemmas presented in their work environments. This program is offered fully online. It will make use of interactive, online learning activities designed to challenge and inspire growth. Students "come" to "class" at times when they are ready to learn-not at a specific time in the evening after working all day. It is not a self-paced program. Discussions happen asynchronously. One might log on at 10 p.m. or find a classmate is awake and doing work online at 4 a.m. after he got off the night shift. This way of learning is different. You are not only the receiver of knowledge, but now you are asked to be more actively engaged in your own learning. You will be asked not only to absorb, but also to discover and create knowledge. The role of the instructor is the designer of these learning challenges. This is much more like what happens in the real world of work.

The program is designed to provide a strong intellectual core, but also to allow specialization via projects.

This program is 45 units, 10 courses of 4.5 units each and two courses will be offered each quarter. It is possible to complete this program in 5 quarters, although some students will want more time to accommodate their work schedules. The degree must be completed within 5 years.

The faculty is committed to students' success, both in work and graduate school. The courses will be offered once a year, 2 courses each of all four quarters.

Student Learning Outcomes

Students graduating with an M.S. in Recreation and Tourism from Cal State East Bay will be able to:

1. Analyze and use evidence-based research and technology to identify challenges and generate effective, sustainable solutions related to personnel, program and logistics areas; and provide relevant references.
2. Demonstrate significant knowledge of exemplary leadership, and teamwork strategies; innovative and effective management skills; and evaluation of service quality and consumer needs through professional experience.
3. Articulate clearly (speak and write) the ethical, theoretical, philosophical, and current management practices and administrative foundations of the profession.
4. Develop a systems approach to create a culture of dignity and respect among individuals, communities, and organizations.

Career Possibilities

- Recreation Program Manager
- Youth Sports Manager
- Event Manager
- Meetings and Conference Manager
- Aquatics Manager
- Senior Center Manager
- Resort Manager
- Retirement Community Program Director
- Camp Director
- Preschool Director
- After-school Director
- Country Club Manager

Features

Our student-centered department has designed this masters degree for working adults. All of our courses are offered totally online. We are dedicated to helping you realize your dreams. Our friendly, accessible faculty will advise you about meeting all requirements in the most efficient manner. We have excellent industry contacts and can help you plan your future advancement in our profession. All our faculty have been Leisure and Hospitality industry professionals.

Admission

Prerequisites and Criteria for admission:

- Baccalaureate degree from an accredited university. It is expected that most students applying for this program will have a BS in Hospitality, Recreation & Tourism.
- If your undergraduate degree is not in Recreation or Hospitality, you may need some foundational courses. This will be determined when your transcript and work experience are evaluated by a graduate advisor or the department chair.
- GPA of 2.75 in last 60 hours of course work is required.
- Must have 2 years of work experience in the field
- Acceptable TOEFL minimum score of 550 (International Students) or above (237 on the Computer-Based TOEFL), or by posting an official transcript showing graduation with a bachelor's degree from a U.S. college or university where English is the principal language of instruction, or by an official letter from the college or university certifying that English is the language of instruction.
- Three letters of recommendation
- Official transcripts from all institutions of higher learning attended
- Current resume

In addition to the University Graduate and Post-Baccalaureate Application, all applicants should submit to the department

1. personal statement explaining their reasons for wanting to pursue the M.S. in Recreation and Tourism degree,
2. an up-to-date resume detailing professional and academic achievements, and
3. three letters of recommendations from those who know them best in a professional light. At least one should be from a superior (immediate supervisor) and one should come from someone who knows their academic abilities.

Admission to the University and admission to the M.S. in Recreation and Tourism degree are separate but simultaneous steps.

Advancement to Candidacy

There are three categories of student status, which reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and "Advancement to Candidacy" student.

1. Students achieve "Conditionally Classified Graduate" status when they have been admitted to the M.S. in Recreation and Tourism degree program, but have not yet completed the prerequisites for "Classified Graduate" status in the M.S. in Recreation and Tourism.
2. Students achieve "Classified Graduate" status when they have satisfied the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
3. Students are advanced to Candidacy when they have completed the required courses with a 3.0 or better GPA.

Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive quarters will be academically disqualified from the university. All graduate degree requirements must be completed within 5 years.

Granting the Degree

Upon satisfaction of all requirements for the degree, the department will recommend that the candidate be granted the Degree of Master of Recreation and Tourism. Students must file for graduation by the second week of the quarter prior to the quarter in which they expect to graduate.

Required Courses (45 units)

Students completing the departmental thesis may either sign up individually or with a faculty advisor. Departmental thesis is directed by one faculty member. Two copies of the departmental thesis are required for the department.

- REC 6000 - Research Methods in Leisure Studies *Units: 4.5*
- REC 6100 - Philosophical Foundations and Theories of Leisure *Units: 4.5*
- REC 6200 - Strategies in Staff Supervision *Units: 4.5*
- REC 6300 - Organizational Development in Leisure *Units: 4.5*
- REC 6400 - Current Management Topics in Leisure *Units: 4.5*
- REC 6500 - Critical Analysis of Leisure Research *Units: 4.5*
- REC 6601 - Planning, Development, and Management of Sustainable Tourism
Units: 4.5
- REC 6700 - Advanced Social Justice and Professional Ethics *Units: 4.5*
- REC 6800 - Strategic Leadership in Leisure *Units: 4.5*

- REC 6901 - Graduate Synthesis *Units: 4.5*
or
- REC 6909 - Departmental Thesis *Units: 4.5*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Hospitality and Tourism Minor

Department & Faculty Information

Minor Requirements (32 units)

The minor consists of 32 units.

I. Required (24 units)

- HOS 4510 - Lodging Management *Units: 4*
- HOS 4520 - Promotion of Leisure and Hospitality *Units: 4*
- HOS 4540 - Fiscal Leadership for Operational Managers *Units: 4*
- HOS 4560 - Food and Beverage Management *Units: 4*
- HOS 4570 - Dimensions in Tourism *Units: 4*
- HOS 4590 - Hospitality Law *Units: 4*

II. Electives (8 units)

Select two courses from the following:

- HOS 4505 - Hospitality Information Technology *Units: 4*
- HOS 4530 - Principles of Meetings, Conventions and Special Events *Units: 4*
- ACCT 2701 - Legal Environment of Business *Units: 4*
- MGMT 3600 - Theories of Management *Units: 4*
- MGMT 3610 - Strategic Human Resources Management *Units: 4*
- MGMT 3614 - Organizational Behavior *Units: 4*
- MKTG 3495 - Business Communication *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Recreation Minor

Department & Faculty Information

Minor Requirements (28 units)

I. Core Courses (16 units)

- REC 1000 - Introduction to Recreation *Units: 4*
- REC 2200 - Programming in Leisure Services *Units: 4*
- REC 3000 - Philosophy of Leisure *Units: 4*
- REC 4050 - Social Justice in Hospitality, Recreation and Tourism *Units: 4*

II. Electives (12 units)

Select three courses from the following:

- REC 2400 - Leisure, Self, and Society *Units: 4*
- REC 2500 - Service Learning in Leadership, Hospitality and Leisure 1 *Units: 1-4*
- REC 3010 - Service Learning in Hospitality, Recreation and Tourism 2 *Units: 4*
- REC 3200 - Wellness Through Leisure *Units: 4*
- REC 3202 - Women and Leisure *Units: 4*
- REC 3800 - Introduction to Recreation Therapy *Units: 4*
- REC 4000 - Administration and Budgeting in Recreation *Units: 4*
- REC 4011 - Youth Development through Leisure *Units: 4*
- REC 4100 - Professional Issues in Hospitality, Recreation and Tourism *Units: 2*
- REC 4300 - Facilities Management and Administration in Leisure *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Human Development and Women's Studies

The Department Office is located on the 3rd Floor of the Meiklejohn Hall building, Room 3069

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3076

Faculty

Professors

Christina Chin-Newman, Ph.D. University of California, Santa Cruz

Lynn Comerford, Ph.D. State University of New York at Albany

Jiansheng Guo, Ph.D. University of California, Berkeley

Keri K. O'Neal (Chair), Ph.D. Texas Tech University

Associate Professors

Steve Borish, Ph.D. Stanford University

Patricia Drew, Ph.D. University of California, Santa Barbara

Rachael Stryker, Ph.D. University of California, Berkeley

Assistant Professors

D. Xeno Rasmusson, Ph.D. University of Georgia

Sara A. Smith, Ph.D. University of Oxford (England)

Mission Statement

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. Students majoring in Human Development explore the processes and mechanisms underlying developmental change and stability across the lifespan, and the sociocultural and historical contexts in which development takes

place. The program's curriculum equips students with basic understanding of major research findings and core concepts in human development, the ability to critically analyze and evaluate theoretical and practical issues in the field, and the skills to apply their learning to diverse communities outside the university. The program strives to create an optimal learning community which values and fosters mutual learning and dialogue between and among students and faculty from diverse backgrounds.

The Mission of California State University, East Bay's Women's Studies Program is to provide undergraduate students minoring in Women's Studies with a culturally sensitive introduction to the research, literature, and methodologies of gender/Women's Studies within, social, and economic perspectives, taught by an interdisciplinary diverse faculty committed to the Program Outcomes, in order to achieve a basic understanding of local, regional, national, and global power relations and how those relationships affect issues of gender/women contemporarily and historically.

Online Degree Program	PACE	Other Human Development Links

Bachelor of Arts

Human Development, Adolescent Development Option, B.A.

Department & Faculty Information

Human Development (B.A.) 180 units

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Student Learning Outcomes

Students graduating with a B.A. in Human Development from will be able to:

1. Demonstrate core knowledge in biological, psychological, and social aspects of human development;
2. Demonstrate critical thinking ability to identify similarities, differences, and connections among human development perspectives;
3. Thoughtfully reflect on the application of human development knowledge and skills to settings outside the university. Students should additionally be able to apply their knowledge and skills to new and diverse situations outside the university;
4. Access information, design and carry out individual and group research projects, and present them clearly, logically and persuasively;
5. Show ability to understand themselves reflectively and others empathetically and apply these skills to both academic and nonacademic contexts.

Career Opportunities

The interdisciplinary approach of the Human Development Program provides students with excellent preparation for graduate study in a wide range of disciplines, including anthropology, education, social work, sociology, medicine, public administration, law, criminal justice, psychology, and counseling. It also prepares students to work with people of all age groups from diverse racial, cultural, ethnic, socioeconomic, religious backgrounds, and sexual orientations. Students majoring in Human Development find a variety of career options in areas such as education, social work, health care, counseling, law and law enforcement, and human resource and organizational work in community or corporate settings.

Features

Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.

Students select one of five Options: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.

Minors in Human Development and Women's Studies (please see Women's Studies chapter of the catalog) are also offered.

Students have the opportunity to pursue internships that integrate academic learning and field experience, and promote the development of professional activities. Internships are graded Credit/No Credit only and may be repeated for credit.

As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.

The major is offered at both the Hayward and Concord campuses.

The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Major Requirements (B.A.) 80 units

Standard Degree Program

The B.A. degree in Human Development requires a total of 180 units.

- The core major consists of 60 units;
- the Adolescent Development Option consists of 20 units;
- the Adult Development and Gerontology Option consists of 20 units.
- the Childhood Development Option consists of 20 units;
- the Early Childhood Development Option consists of 20 units;
- the Women's Development Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Online Degree Program

The Online Human Development Degree Program is for students entering their third year status and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online. Students participating in the Online Degree Program may choose from three options: Early Childhood Development, Adult Development and Gerontology, and Women's Development.

The online major consists of 80 units; the B.A. degree requires a total of 180 units, which includes 12-units of lower-division from among three different categories.

Lower Division (12 units)

Select three 4-unit courses from the following categories, with no more than one course from each category.

- A. Anthropology (cultural or social)
- B. Psychology
- C. Sociology
- D. Human biology or physical anthropology
- E. Human or child development
- F. Ethnic or area studies
- G. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Students intending to pursue an online degree will choose 12-units of lower division courses from among three different categories; consult with a Department advisor for direction.

Upper Division (48 units)

Upper Division Standing required prior to taking courses. Please contact your advisor.

Junior Foundation Courses

Twenty-four (24) units required:

- HDEV 3101 - Lifespan Physical and Cognitive Development *Units: 4*
- HDEV 3102 - Lifespan Social and Emotional Development *Units: 4*
- HDEV 3103 - Social and Cultural Dynamics of Human Development *Units: 4*
- HDEV 3201 - Theories of Human Development *Units: 4*
- HDEV 3202 - Research Methods in Human Development *Units: 4*

- HDEV 3203 - Applying Theory and Methods of Human Development *Units: 4*

Lifespan Survey Courses

Sixteen (16) units required:

- HDEV 3301 - Child Development *Units: 4*
- HDEV 3302 - Foundational Aspects of Adolescent Development *Units: 4*
- HDEV 3303 - Adult Development and Aging *Units: 4*
- HDEV 3304 - Girls and Women Across the Lifespan *Units: 4*

Senior Capstone Courses

Eight (8) units required. Completion of all HDEV Junior Foundation and Lifespan Survey courses necessary before enrolling in the Senior Capstone courses. Students must enroll in two consecutive quarters for these two courses:

- HDEV 4811 - Senior Research Seminar in Human Development I *Units: 4*
- HDEV 4812 - Senior Research Seminar in Human Development II *Units: 4*

Option Requirements

To complete the major unit requirements students must choose one (1) of the following options:

Degree Programs

- Human Development, Adolescent Development Option, B.A.
- Human Development, Adult Development and Gerontology Option, B.A.
- Human Development, Childhood Development Option, B.A.
- Human Development, Early Childhood Development Option, B.A.
- Human Development, Women's Development Option, B.A.

Online Degree Programs

The Online Human Development Degree Program is for students entering their *third year status* and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online.

- Human Development, Adult Development and Gerontology Online Option, B.A.
- Human Development, Early Childhood Development Online Option, B.A.
- Human Development, Women's Development Online Option, B.A.

Adolescent Development Option (20 units)

The Adolescent Development Option covers the teenage years. It consists of 20 units of required and elective courses that focus on issues arising during the pre-pubescent to pre-adult years from biological, psychological, and social perspectives. Sixteen (16) units must be with the HDEV prefix:

- HDEV 3800 - Human Development and Interaction *Units: 4*
- HDEV 4150 - Children in Families and Communities *Units: 4*
- HDEV 4220 - Contemporary Research Topics in Adolescent Development *Units: 4*
- HDEV 4230 - Prevention and Intervention in Adolescent Development *Units: 4*

- HDEV 4430 - Intimate Relationships Throughout the Lifespan *Units: 4*
- HDEV 4440 - Lesbian and Gay Lifespan Development *Units: 4*
- HDEV 4450 - Human Development and Conflict in Contemporary Society *Units: 4*
- WOST 3520 - Mothers, Daughters, and Sons *Units: 4*
- WOST 3530 - Women and Their Bodies *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Human Development, Adult Development and Gerontology Online Option, B.A.

Department & Faculty Information

Human Development (B.A.) 180 units

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Student Learning Outcomes

Students graduating with a B.A. in Human Development from will be able to:

1. Demonstrate core knowledge in biological, psychological, and social aspects of human development;
2. Demonstrate critical thinking ability to identify similarities, differences, and connections among human development perspectives;
3. Thoughtfully reflect on the application of human development knowledge and skills to settings outside the university. Students should additionally be able to apply their knowledge and skills to new and diverse situations outside the university;
4. Access information, design and carry out individual and group research projects, and present them clearly, logically and persuasively;

5. Show ability to understand themselves reflectively and others empathetically and apply these skills to both academic and nonacademic contexts.

Career Opportunities

The interdisciplinary approach of the Human Development Program provides students with excellent preparation for graduate study in a wide range of disciplines, including anthropology, education, social work, sociology, medicine, public administration, law, criminal justice, psychology, and counseling. It also prepares students to work with people of all age groups from diverse racial, cultural, ethnic, socioeconomic, religious backgrounds, and sexual orientations. Students majoring in Human Development find a variety of career options in areas such as education, social work, health care, counseling, law and law enforcement, and human resource and organizational work in community or corporate settings.

Features

Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.

Students select one of five Options: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.

Minors in Human Development and Women's Studies (please see Women's Studies chapter of the catalog) are also offered.

Students have the opportunity to pursue internships that integrate academic learning and field experience, and promote the development of professional activities. Internships are graded Credit/No Credit only and may be repeated for credit.

As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.

The major is offered at both the Hayward and Concord campuses.

The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Major Requirements (B.A.) 80 units

Standard Degree Program

The B.A. degree in Human Development requires a total of 180 units.

- The core major consists of 60 units;
- the Adolescent Development Option consists of 20 units;
- the Adult Development and Gerontology Option consists of 20 units.
- the Childhood Development Option consists of 20 units;
- the Early Childhood Development Option consists of 20 units;
- the Women's Development Option consists of 20 units.

- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any)* will make up the remainder units to reach 180 minimum total units (*see your advisor*).

Online Degree Program

The Online Human Development Degree Program is for students entering their third year status and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online. Students participating in the Online Degree Program may choose from three options: Early Childhood Development, Adult Development and Gerontology, and Women's Development.

The online major consists of 80 units; the B.A. degree requires a total of 180 units, which includes 12-units of lower-division from among three different categories.

Lower Division (12 units)

Select three 4-unit courses from the following categories, with no more than one course from each category.

- Anthropology (cultural or social)
- Psychology
- Sociology
- Human biology or physical anthropology
- Human or child development
- Ethnic or area studies
- Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Students intending to pursue an online degree will choose 12-units of lower division courses from among three different categories; consult with a Department advisor for direction.

Upper Division (48 units)

Upper Division Standing required prior to taking courses. Please contact your advisor.

Junior Foundation Courses

Twenty-four (24) units required:

- HDEV 3101 - Lifespan Physical and Cognitive Development *Units: 4*
- HDEV 3102 - Lifespan Social and Emotional Development *Units: 4*
- HDEV 3103 - Social and Cultural Dynamics of Human Development *Units: 4*
- HDEV 3201 - Theories of Human Development *Units: 4*
- HDEV 3202 - Research Methods in Human Development *Units: 4*
- HDEV 3203 - Applying Theory and Methods of Human Development *Units: 4*

Lifespan Survey Courses

Sixteen (16) units required:

- HDEV 3301 - Child Development *Units: 4*
- HDEV 3302 - Foundational Aspects of Adolescent Development *Units: 4*
- HDEV 3303 - Adult Development and Aging *Units: 4*
- HDEV 3304 - Girls and Women Across the Lifespan *Units: 4*

Senior Capstone Courses

Eight (8) units required. Completion of all HDEV Junior Foundation and Lifespan Survey courses necessary before enrolling in the Senior Capstone courses. Students must enroll in two consecutive quarters for these two courses:

- HDEV 4811 - Senior Research Seminar in Human Development I *Units: 4*
- HDEV 4812 - Senior Research Seminar in Human Development II *Units: 4*

Option Requirements

To complete the major unit requirements students must choose one (1) of the following options:

Degree Programs

- Human Development, Adolescent Development Option, B.A.
- Human Development, Adult Development and Gerontology Option, B.A.
- Human Development, Childhood Development Option, B.A.
- Human Development, Early Childhood Development Option, B.A.
- Human Development, Women's Development Option, B.A.

Online Degree Programs

The Online Human Development Degree Program is for students entering their *third year status* and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online.

- Human Development, Adult Development and Gerontology Online Option, B.A.
- Human Development, Early Childhood Development Online Option, B.A.
- Human Development, Women's Development Online Option, B.A.

Adult Development and Gerontology Online Option (20 units)

The Online Adult Development and Gerontology Option consists of 20 units of required and elective courses that focus on biological, psychological, and social aspects of early, middle, and late adulthood. By choosing from the elective courses, students may decide to focus on adulthood, or aging, or both. Sixteen (16) units must be with the HDEV prefix:

- HDEV 4310 - Human Development in the Changing Workplace *Units: 4*
- HDEV 4361 - Current Issues in Aging *Units: 4*
- HDEV 4362 - Aging and Diversity *Units: 4*
- HDEV 4363 - Cognitive Aging *Units: 4*
- HDEV 4430 - Intimate Relationships Throughout the Lifespan *Units: 4*
- HDEV 4440 - Lesbian and Gay Lifespan Development *Units: 4*
- WOST 3400 - Women and Careers *Units: 4*
- WOST 3530 - Women and Their Bodies *Units: 4*
- WOST 3545 - Women's Health and Health Care *Units: 4*
- WOST 3550 - Women, Work, and Family Life *Units: 4*
- WOST 4130 - Women in Midlife Transition *Units: 4*

- WOST 4160 - Women and Aging *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Human Development, Adult Development and Gerontology Option, B.A.

Department & Faculty Information

Human Development (B.A.) 180 units

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Student Learning Outcomes

Students graduating with a B.A. in Human Development from will be able to:

1. Demonstrate core knowledge in biological, psychological, and social aspects of human development;
2. Demonstrate critical thinking ability to identify similarities, differences, and connections among human development perspectives;
3. Thoughtfully reflect on the application of human development knowledge and skills to settings outside the university. Students should additionally be able to apply their knowledge and skills to new and diverse situations outside the university;
4. Access information, design and carry out individual and group research projects, and present them clearly, logically and persuasively;
5. Show ability to understand themselves reflectively and others empathetically and apply these skills to both academic and nonacademic contexts.

Career Opportunities

The interdisciplinary approach of the Human Development Program provides students with excellent preparation for graduate study in a wide range of disciplines, including anthropology, education, social work, sociology, medicine, public administration, law, criminal justice, psychology, and counseling. It also prepares students to work with people of all age groups from diverse racial, cultural, ethnic, socioeconomic, religious backgrounds, and sexual orientations. Students majoring in Human Development find a variety of career options in areas such as education, social work, health care, counseling, law and law enforcement, and human resource and organizational work in community or corporate settings.

Features

Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.

Students select one of five Options: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.

Minors in Human Development and Women's Studies (please see Women's Studies chapter of the catalog) are also offered.

Students have the opportunity to pursue internships that integrate academic learning and field experience, and promote the development of professional activities. Internships are graded Credit/No Credit only and may be repeated for credit.

As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.

The major is offered at both the Hayward and Concord campuses.

The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Major Requirements (B.A.) 80 units

Standard Degree Program

The B.A. degree in Human Development requires a total of 180 units.

- The core major consists of 60 units;
- the Adolescent Development Option consists of 20 units;
- the Adult Development and Gerontology Option consists of 20 units.
- the Childhood Development Option consists of 20 units;
- the Early Childhood Development Option consists of 20 units;
- the Women's Development Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Online Degree Program

The Online Human Development Degree Program is for students entering their third year status and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online. Students participating in the Online Degree Program may choose from three options: Early Childhood Development, Adult Development and Gerontology, and Women's Development.

The online major consists of 80 units; the B.A. degree requires a total of 180 units, which includes 12-units of lower-division from among three different categories.

Lower Division (12 units)

Select three 4-unit courses from the following categories, with no more than one course from each category.

- A. Anthropology (cultural or social)
- B. Psychology
- C. Sociology
- D. Human biology or physical anthropology
- E. Human or child development
- F. Ethnic or area studies
- G. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Students intending to pursue an online degree will choose 12-units of lower division courses from among three different categories; consult with a Department advisor for direction.

Upper Division (48 units)

Upper Division Standing required prior to taking courses. Please contact your advisor.

Junior Foundation Courses

Twenty-four (24) units required:

- HDEV 3101 - Lifespan Physical and Cognitive Development *Units: 4*
- HDEV 3102 - Lifespan Social and Emotional Development *Units: 4*
- HDEV 3103 - Social and Cultural Dynamics of Human Development *Units: 4*
- HDEV 3201 - Theories of Human Development *Units: 4*
- HDEV 3202 - Research Methods in Human Development *Units: 4*
- HDEV 3203 - Applying Theory and Methods of Human Development *Units: 4*

Lifespan Survey Courses

Sixteen (16) units required:

- HDEV 3301 - Child Development *Units: 4*
- HDEV 3302 - Foundational Aspects of Adolescent Development *Units: 4*
- HDEV 3303 - Adult Development and Aging *Units: 4*
- HDEV 3304 - Girls and Women Across the Lifespan *Units: 4*

Senior Capstone Courses

Eight (8) units required. Completion of all HDEV Junior Foundation and Lifespan Survey courses necessary before enrolling in the Senior Capstone courses. Students must enroll in two consecutive quarters for these two courses:

- HDEV 4811 - Senior Research Seminar in Human Development I *Units: 4*
- HDEV 4812 - Senior Research Seminar in Human Development II *Units: 4*

Option Requirements

To complete the major unit requirements students must choose one (1) of the following options:

Degree Programs

- Human Development, Adolescent Development Option, B.A.
- Human Development, Adult Development and Gerontology Option, B.A.
- Human Development, Childhood Development Option, B.A.
- Human Development, Early Childhood Development Option, B.A.
- Human Development, Women's Development Option, B.A.

Online Degree Programs

The Online Human Development Degree Program is for students entering their *third year status* and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online.

- Human Development, Adult Development and Gerontology Online Option, B.A.
- Human Development, Early Childhood Development Online Option, B.A.
- Human Development, Women's Development Online Option, B.A.

Adult Development and Gerontology Option (20 units)

The Adult Development and Gerontology Option consists of 20 units of required and elective courses that focus on early, middle, and late adulthood from biological, psychological, and social perspectives. By choosing from the elective courses, students may decide to focus on adulthood, or aging, or both. Sixteen (16) units must be with the HDEV prefix:

- HDEV 4310 - Human Development in the Changing Workplace *Units: 4*
- HDEV 4361 - Current Issues in Aging *Units: 4*
- HDEV 4362 - Aging and Diversity *Units: 4*
- HDEV 4363 - Cognitive Aging *Units: 4*
- HDEV 4430 - Intimate Relationships Throughout the Lifespan *Units: 4*
- HDEV 4440 - Lesbian and Gay Lifespan Development *Units: 4*
- HDEV 4450 - Human Development and Conflict in Contemporary Society *Units: 4*
- WOST 3400 - Women and Careers *Units: 4*
- WOST 3530 - Women and Their Bodies *Units: 4*
- WOST 3545 - Women's Health and Health Care *Units: 4*
- WOST 3550 - Women, Work, and Family Life *Units: 4*
- WOST 4130 - Women in Midlife Transition *Units: 4*

- WOST 4160 - Women and Aging *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Human Development, Childhood Development Option, B.A.

Department & Faculty Information

Human Development (B.A.) 180 units

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Student Learning Outcomes

Students graduating with a B.A. in Human Development from will be able to:

1. Demonstrate core knowledge in biological, psychological, and social aspects of human development;
2. Demonstrate critical thinking ability to identify similarities, differences, and connections among human development perspectives;
3. Thoughtfully reflect on the application of human development knowledge and skills to settings outside the university. Students should additionally be able to apply their knowledge and skills to new and diverse situations outside the university;
4. Access information, design and carry out individual and group research projects, and present them clearly, logically and persuasively;
5. Show ability to understand themselves reflectively and others empathetically and apply these skills to both academic and nonacademic contexts.

Career Opportunities

The interdisciplinary approach of the Human Development Program provides students with excellent preparation for graduate study in a wide range of disciplines, including anthropology, education, social work, sociology, medicine, public administration, law, criminal justice, psychology, and counseling. It also prepares students to work with people of all age groups from diverse racial, cultural, ethnic, socioeconomic, religious backgrounds, and sexual orientations. Students majoring in Human Development find a variety of career options in areas such as education, social work, health care, counseling, law and law enforcement, and human resource and organizational work in community or corporate settings.

Features

Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.

Students select one of five Options: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.

Minors in Human Development and Women's Studies (please see Women's Studies chapter of the catalog) are also offered.

Students have the opportunity to pursue internships that integrate academic learning and field experience, and promote the development of professional activities. Internships are graded Credit/No Credit only and may be repeated for credit.

As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.

The major is offered at both the Hayward and Concord campuses.

The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Major Requirements (B.A.) 80 units

Standard Degree Program

The B.A. degree in Human Development requires a total of 180 units.

- The core major consists of 60 units;
- the Adolescent Development Option consists of 20 units;
- the Adult Development and Gerontology Option consists of 20 units.
- the Childhood Development Option consists of 20 units;
- the Early Childhood Development Option consists of 20 units;
- the Women's Development Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Online Degree Program

The Online Human Development Degree Program is for students entering their third year status and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online. Students participating in the Online Degree Program may choose from three options: Early Childhood Development, Adult Development and Gerontology, and Women's Development.

The online major consists of 80 units; the B.A. degree requires a total of 180 units, which includes 12-units of lower-division from among three different categories.

Lower Division (12 units)

Select three 4-unit courses from the following categories, with no more than one course from each category.

- A. Anthropology (cultural or social)
- B. Psychology
- C. Sociology
- D. Human biology or physical anthropology
- E. Human or child development
- F. Ethnic or area studies
- G. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Students intending to pursue an online degree will choose 12-units of lower division courses from among three different categories; consult with a Department advisor for direction.

Upper Division (48 units)

Upper Division Standing required prior to taking courses. Please contact your advisor.

Junior Foundation Courses

Twenty-four (24) units required:

- HDEV 3101 - Lifespan Physical and Cognitive Development *Units: 4*
- HDEV 3102 - Lifespan Social and Emotional Development *Units: 4*
- HDEV 3103 - Social and Cultural Dynamics of Human Development *Units: 4*
- HDEV 3201 - Theories of Human Development *Units: 4*
- HDEV 3202 - Research Methods in Human Development *Units: 4*
- HDEV 3203 - Applying Theory and Methods of Human Development *Units: 4*

Lifespan Survey Courses

Sixteen (16) units required:

- HDEV 3301 - Child Development *Units: 4*
- HDEV 3302 - Foundational Aspects of Adolescent Development *Units: 4*
- HDEV 3303 - Adult Development and Aging *Units: 4*
- HDEV 3304 - Girls and Women Across the Lifespan *Units: 4*

Senior Capstone Courses

Eight (8) units required. Completion of all HDEV Junior Foundation and Lifespan Survey courses necessary before enrolling in the Senior Capstone courses. Students must enroll in two consecutive quarters for these two courses:

- HDEV 4811 - Senior Research Seminar in Human Development I *Units: 4*
- HDEV 4812 - Senior Research Seminar in Human Development II *Units: 4*

Option Requirements

To complete the major unit requirements students must choose one (1) of the following options:

Degree Programs

- Human Development, Adolescent Development Option, B.A.
- Human Development, Adult Development and Gerontology Option, B.A.
- Human Development, Childhood Development Option, B.A.
- Human Development, Early Childhood Development Option, B.A.
- Human Development, Women's Development Option, B.A.

Online Degree Programs

The Online Human Development Degree Program is for students entering their *third year status* and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online.

- Human Development, Adult Development and Gerontology Online Option, B.A.
- Human Development, Early Childhood Development Online Option, B.A.
- Human Development, Women's Development Online Option, B.A.

Childhood Development Option (20 units)

The Childhood Development Option covers the years from birth to age 12. It consists of 20 units of required and elective courses that focus on infancy to early adolescence from biological, psychological, and social perspectives.

Required Courses

Eight (8) units:

- HDEV 4140 - Theories of Childhood *Units: 4*
- HDEV 4150 - Children in Families and Communities *Units: 4*

Elective Courses

Twelve (12) units from the following:

- HDEV 4110 - Child Cognitive Development *Units: 4*
- HDEV 4120 - Child Language Development *Units: 4*
- HDEV 4130 - The Social Development of Children *Units: 4*
- HDEV 4450 - Human Development and Conflict in Contemporary Society *Units: 4*
- WOST 3520 - Mothers, Daughters, and Sons *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Human Development, Early Childhood Development Online Option, B.A.

Department & Faculty Information

Human Development (B.A.) 180 units

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Student Learning Outcomes

Students graduating with a B.A. in Human Development from will be able to:

1. Demonstrate core knowledge in biological, psychological, and social aspects of human development;
2. Demonstrate critical thinking ability to identify similarities, differences, and connections among human development perspectives;
3. Thoughtfully reflect on the application of human development knowledge and skills to settings outside the university. Students should additionally be able to apply their knowledge and skills to new and diverse situations outside the university;
4. Access information, design and carry out individual and group research projects, and present them clearly, logically and persuasively;
5. Show ability to understand themselves reflectively and others empathetically and apply these skills to both academic and nonacademic contexts.

Career Opportunities

The interdisciplinary approach of the Human Development Program provides students with excellent preparation for graduate study in a wide range of disciplines, including anthropology, education, social work, sociology, medicine, public administration, law, criminal justice, psychology, and counseling. It also prepares students to work with people of all age groups from diverse racial, cultural, ethnic, socioeconomic, religious backgrounds, and sexual orientations. Students majoring in Human Development find a variety of career options in areas such as education, social work, health care, counseling, law and law enforcement, and human resource and organizational work in community or corporate settings.

Features

Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.

Students select one of five Options: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.

Minors in Human Development and Women's Studies (please see Women's Studies chapter of the catalog) are also offered.

Students have the opportunity to pursue internships that integrate academic learning and field experience, and promote the development of professional activities. Internships are graded Credit/No Credit only and may be repeated for credit.

As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.

The major is offered at both the Hayward and Concord campuses.

The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Major Requirements (B.A.) 80 units

Standard Degree Program

The B.A. degree in Human Development requires a total of 180 units.

- The core major consists of 60 units;
- the Adolescent Development Option consists of 20 units;
- the Adult Development and Gerontology Option consists of 20 units.
- the Childhood Development Option consists of 20 units;
- the Early Childhood Development Option consists of 20 units;
- the Women's Development Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Online Degree Program

The Online Human Development Degree Program is for students entering their third year status and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online. Students participating in the Online Degree Program may choose from three options: Early Childhood Development, Adult Development and Gerontology, and Women's Development.

The online major consists of 80 units; the B.A. degree requires a total of 180 units, which includes 12-units of lower-division from among three different categories.

Lower Division (12 units)

Select three 4-unit courses from the following categories, with no more than one course from each category.

- A. Anthropology (cultural or social)
- B. Psychology
- C. Sociology
- D. Human biology or physical anthropology
- E. Human or child development
- F. Ethnic or area studies
- G. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Students intending to pursue an online degree will choose 12-units of lower division courses from among three different categories; consult with a Department advisor for direction.

Upper Division (48 units)

Upper Division Standing required prior to taking courses. Please contact your advisor.

Junior Foundation Courses

Twenty-four (24) units required:

- HDEV 3101 - Lifespan Physical and Cognitive Development *Units: 4*
- HDEV 3102 - Lifespan Social and Emotional Development *Units: 4*
- HDEV 3103 - Social and Cultural Dynamics of Human Development *Units: 4*
- HDEV 3201 - Theories of Human Development *Units: 4*
- HDEV 3202 - Research Methods in Human Development *Units: 4*
- HDEV 3203 - Applying Theory and Methods of Human Development *Units: 4*

Lifespan Survey Courses

Sixteen (16) units required:

- HDEV 3301 - Child Development *Units: 4*
- HDEV 3302 - Foundational Aspects of Adolescent Development *Units: 4*
- HDEV 3303 - Adult Development and Aging *Units: 4*
- HDEV 3304 - Girls and Women Across the Lifespan *Units: 4*

Senior Capstone Courses

Eight (8) units required. Completion of all HDEV Junior Foundation and Lifespan Survey courses necessary before enrolling in the Senior Capstone courses. Students must enroll in two consecutive quarters for these two courses:

- HDEV 4811 - Senior Research Seminar in Human Development I *Units: 4*
- HDEV 4812 - Senior Research Seminar in Human Development II *Units: 4*

Option Requirements

To complete the major unit requirements students must choose one (1) of the following options:

Degree Programs

- Human Development, Adolescent Development Option, B.A.
- Human Development, Adult Development and Gerontology Option, B.A.
- Human Development, Childhood Development Option, B.A.
- Human Development, Early Childhood Development Option, B.A.
- Human Development, Women's Development Option, B.A.

Online Degree Programs

The Online Human Development Degree Program is for students entering their *third year status* and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online.

- Human Development, Adult Development and Gerontology Online Option, B.A.
- Human Development, Early Childhood Development Online Option, B.A.
- Human Development, Women's Development Online Option, B.A.

Early Childhood Development Online Option (20 units)

The Early Childhood Development Option covers the years from birth to age 5. It consists of 20 units of required and elective courses that focus on infancy to preschool years from biological, psychological, and social perspectives.

Required Courses

Sixteen (16) units:

- HDEV 4010 - Early Childhood Cognitive Development *Units: 4*
- HDEV 4030 - Early Childhood Social Development *Units: 4*
- HDEV 4140 - Theories of Childhood *Units: 4*
- HDEV 4150 - Children in Families and Communities *Units: 4*

Elective Courses

Select 4 units from the following:

- HDEV 4120 - Child Language Development *Units: 4*
- TED 4070 - Early Childhood Education: Language and Literacy Development
Units: 4

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Human Development, Early Childhood Development Option, B.A.

Department & Faculty Information

Human Development (B.A.) 180 units

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Student Learning Outcomes

Students graduating with a B.A. in Human Development from will be able to:

1. Demonstrate core knowledge in biological, psychological, and social aspects of human development;
2. Demonstrate critical thinking ability to identify similarities, differences, and connections among human development perspectives;
3. Thoughtfully reflect on the application of human development knowledge and skills to settings outside the university. Students should additionally be able to apply their knowledge and skills to new and diverse situations outside the university;
4. Access information, design and carry out individual and group research projects, and present them clearly, logically and persuasively;
5. Show ability to understand themselves reflectively and others empathetically and apply these skills to both academic and nonacademic contexts.

Career Opportunities

The interdisciplinary approach of the Human Development Program provides students with excellent preparation for graduate study in a wide range of disciplines, including anthropology, education, social work, sociology, medicine, public administration, law, criminal justice, psychology, and counseling. It

also prepares students to work with people of all age groups from diverse racial, cultural, ethnic, socioeconomic, religious backgrounds, and sexual orientations. Students majoring in Human Development find a variety of career options in areas such as education, social work, health care, counseling, law and law enforcement, and human resource and organizational work in community or corporate settings.

Features

Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.

Students select one of five Options: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.

Minors in Human Development and Women's Studies (please see Women's Studies chapter of the catalog) are also offered.

Students have the opportunity to pursue internships that integrate academic learning and field experience, and promote the development of professional activities. Internships are graded Credit/No Credit only and may be repeated for credit.

As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.

The major is offered at both the Hayward and Concord campuses.

The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Major Requirements (B.A.) 80 units

Standard Degree Program

The B.A. degree in Human Development requires a total of 180 units.

- The core major consists of 60 units;
- the Adolescent Development Option consists of 20 units;
- the Adult Development and Gerontology Option consists of 20 units.
- the Childhood Development Option consists of 20 units;
- the Early Childhood Development Option consists of 20 units;
- the Women's Development Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Online Degree Program

The Online Human Development Degree Program is for students entering their third year status and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online. Students participating in the Online Degree Program may choose from three options:

Early Childhood Development, Adult Development and Gerontology, and Women's Development.

The online major consists of 80 units; the B.A. degree requires a total of 180 units, which includes 12-units of lower-division from among three different categories.

Lower Division (12 units)

Select three 4-unit courses from the following categories, with no more than one course from each category.

- A. Anthropology (cultural or social)
- B. Psychology
- C. Sociology
- D. Human biology or physical anthropology
- E. Human or child development
- F. Ethnic or area studies
- G. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Students intending to pursue an online degree will choose 12-units of lower division courses from among three different categories; consult with a Department advisor for direction.

Upper Division (48 units)

Upper Division Standing required prior to taking courses. Please contact your advisor.

Junior Foundation Courses

Twenty-four (24) units required:

- HDEV 3101 - Lifespan Physical and Cognitive Development *Units: 4*
- HDEV 3102 - Lifespan Social and Emotional Development *Units: 4*
- HDEV 3103 - Social and Cultural Dynamics of Human Development *Units: 4*
- HDEV 3201 - Theories of Human Development *Units: 4*
- HDEV 3202 - Research Methods in Human Development *Units: 4*
- HDEV 3203 - Applying Theory and Methods of Human Development *Units: 4*

Lifespan Survey Courses

Sixteen (16) units required:

- HDEV 3301 - Child Development *Units: 4*
- HDEV 3302 - Foundational Aspects of Adolescent Development *Units: 4*
- HDEV 3303 - Adult Development and Aging *Units: 4*
- HDEV 3304 - Girls and Women Across the Lifespan *Units: 4*

Senior Capstone Courses

Eight (8) units required. Completion of all HDEV Junior Foundation and Lifespan Survey courses necessary before enrolling in the Senior Capstone courses. Students must enroll in two consecutive quarters for these two courses:

- HDEV 4811 - Senior Research Seminar in Human Development I *Units: 4*
- HDEV 4812 - Senior Research Seminar in Human Development II *Units: 4*

Option Requirements

To complete the major unit requirements students must choose one (1) of the following options:

Degree Programs

- Human Development, Adolescent Development Option, B.A.
- Human Development, Adult Development and Gerontology Option, B.A.
- Human Development, Childhood Development Option, B.A.
- Human Development, Early Childhood Development Option, B.A.
- Human Development, Women's Development Option, B.A.

Online Degree Programs

The Online Human Development Degree Program is for students entering their *third year status* and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online.

- Human Development, Adult Development and Gerontology Online Option, B.A.
- Human Development, Early Childhood Development Online Option, B.A.
- Human Development, Women's Development Online Option, B.A.

Early Childhood Development Option (20 units)

The Early Childhood Development Option covers the years from birth to age 5. It consists of 20 units of required and elective courses that focus on infancy to preschool years from biological, psychological, and social perspectives.

Required Course

Four (4) units:

- HDEV 4150 - Children in Families and Communities *Units: 4*

Elective Courses

Select 4 units from the following:

- HDEV 4120 - Child Language Development *Units: 4*
- TED 4070 - Early Childhood Education: Language and Literacy Development
Units: 4

Select 12 units from the following:

- HDEV 4030 - Early Childhood Social Development *Units: 4*
- HDEV 4060 - Creative and Artistic Development in Early Childhood *Units: 4*
- HDEV 4110 - Child Cognitive Development *Units: 4*
- HDEV 4140 - Theories of Childhood *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth

requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Human Development, Women's Development Online Option, B.A.

Department & Faculty Information

Human Development (B.A.) 180 units

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Student Learning Outcomes

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1. Demonstrate core knowledge in biological, psychological, and social aspects of human development;
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4. Access information, design and carry out individual and group research projects, and present them clearly, logically and persuasively;
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Career Opportunities

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Features

Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.

Students select one of five Options: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.

Minors in Human Development and Women's Studies (please see Women's Studies chapter of the catalog) are also offered.

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The major is offered at both the Hayward and Concord campuses.

The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Major Requirements (B.A.) 80 units

Standard Degree Program

The B.A. degree in Human Development requires a total of 180 units.

- The core major consists of 60 units;
- the Adolescent Development Option consists of 20 units;
- the Adult Development and Gerontology Option consists of 20 units.
- the Childhood Development Option consists of 20 units;
- the Early Childhood Development Option consists of 20 units;
- the Women's Development Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Online Degree Program

The Online Human Development Degree Program is for students entering their third year status and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online. Students participating in the Online Degree Program may choose from three options: Early Childhood Development, Adult Development and Gerontology, and Women's Development.

The online major consists of 80 units; the B.A. degree requires a total of 180 units, which includes 12-units of lower-division from among three different categories.

Lower Division (12 units)

Select three 4-unit courses from the following categories, with no more than one course from each category.

- A. Anthropology (cultural or social)
- B. Psychology
- C. Sociology
- D. Human biology or physical anthropology
- E. Human or child development
- F. Ethnic or area studies
- G. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Students intending to pursue an online degree will choose 12-units of lower division courses from among three different categories; consult with a Department advisor for direction.

Upper Division (48 units)

Upper Division Standing required prior to taking courses. Please contact your advisor.

Junior Foundation Courses

Twenty-four (24) units required:

- HDEV 3101 - Lifespan Physical and Cognitive Development *Units: 4*
- HDEV 3102 - Lifespan Social and Emotional Development *Units: 4*
- HDEV 3103 - Social and Cultural Dynamics of Human Development *Units: 4*
- HDEV 3201 - Theories of Human Development *Units: 4*
- HDEV 3202 - Research Methods in Human Development *Units: 4*
- HDEV 3203 - Applying Theory and Methods of Human Development *Units: 4*

Lifespan Survey Courses

Sixteen (16) units required:

- HDEV 3301 - Child Development *Units: 4*
- HDEV 3302 - Foundational Aspects of Adolescent Development *Units: 4*
- HDEV 3303 - Adult Development and Aging *Units: 4*
- HDEV 3304 - Girls and Women Across the Lifespan *Units: 4*

Senior Capstone Courses

Eight (8) units required. Completion of all HDEV Junior Foundation and Lifespan Survey courses necessary before enrolling in the Senior Capstone courses. Students must enroll in two consecutive quarters for these two courses:

- HDEV 4811 - Senior Research Seminar in Human Development I *Units: 4*
- HDEV 4812 - Senior Research Seminar in Human Development II *Units: 4*

Option Requirements

To complete the major unit requirements students must choose one (1) of the following options:

Degree Programs

- Human Development, Adolescent Development Option, B.A.

- Human Development, Adult Development and Gerontology Option, B.A.
- Human Development, Childhood Development Option, B.A.
- Human Development, Early Childhood Development Option, B.A.
- Human Development, Women's Development Option, B.A.

Online Degree Programs

The Online Human Development Degree Program is for students entering their *third year status* and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online.

- Human Development, Adult Development and Gerontology Online Option, B.A.
- Human Development, Early Childhood Development Online Option, B.A.
- Human Development, Women's Development Online Option, B.A.

Women's Development Online Option (20 units)

The Online Women's Development Option consists of 20 units of required and elective courses that focus on women's biological, psychological, and social development

Required Courses

Eight (8) units:

- WOST 4130 - Women in Midlife Transition *Units: 4*
- WOST 4160 - Women and Aging *Units: 4*

Elective Courses

Select 4 units from the following:

- HDEV 4310 - Human Development in the Changing Workplace *Units: 4*
- HDEV 4430 - Intimate Relationships Throughout the Lifespan *Units: 4*
- HDEV 4440 - Lesbian and Gay Lifespan Development *Units: 4*

Select 8 units from the following:

- ES 3030 - Immigrant and Refugee Women *Units: 4*
or
- WOST 3030 - Immigrant and Refugee Women *Units: 4*
- WOST 3050 - Feminist Theory *Units: 4*
- WOST 3400 - Women and Careers *Units: 4*
- WOST 3420 - Minority Women in America *Units: 4*
or
- ES 3420 - Minority Women in America *Units: 4*
- WOST 3520 - Mothers, Daughters, and Sons *Units: 4*
- WOST 3530 - Women and Their Bodies *Units: 4*
- WOST 3545 - Women's Health and Health Care *Units: 4*
- WOST 3550 - Women, Work, and Family Life *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Human Development, Women's Development Option, B.A.

Department & Faculty Information

Human Development (B.A.) 180 units

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Student Learning Outcomes

Students graduating with a B.A. in Human Development from will be able to:

1. Demonstrate core knowledge in biological, psychological, and social aspects of human development;
2. Demonstrate critical thinking ability to identify similarities, differences, and connections among human development perspectives;
3. Thoughtfully reflect on the application of human development knowledge and skills to settings outside the university. Students should additionally be able to apply their knowledge and skills to new and diverse situations outside the university;
4. Access information, design and carry out individual and group research projects, and present them clearly, logically and persuasively;
5. Show ability to understand themselves reflectively and others empathetically and apply these skills to both academic and nonacademic contexts.

Career Opportunities

The interdisciplinary approach of the Human Development Program provides students with excellent preparation for graduate study in a wide range of disciplines, including anthropology, education, social work, sociology, medicine, public administration, law, criminal justice, psychology, and counseling. It also prepares students to work with people of all age groups from diverse racial, cultural, ethnic, socioeconomic, religious backgrounds, and sexual orientations. Students majoring in Human Development find a variety of career options in areas such as education, social work, health care, counseling, law and law enforcement, and human resource and organizational work in community or corporate settings.

Features

Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.

Students select one of five Options: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.

Minors in Human Development and Women's Studies (please see Women's Studies chapter of the catalog) are also offered.

Students have the opportunity to pursue internships that integrate academic learning and field experience, and promote the development of professional activities. Internships are graded Credit/No Credit only and may be repeated for credit.

As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.

The major is offered at both the Hayward and Concord campuses.

The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Major Requirements (B.A.) 80 units

Standard Degree Program

The B.A. degree in Human Development requires a total of 180 units.

- The core major consists of 60 units;
- the Adolescent Development Option consists of 20 units;
- the Adult Development and Gerontology Option consists of 20 units.
- the Childhood Development Option consists of 20 units;
- the Early Childhood Development Option consists of 20 units;
- the Women's Development Option consists of 20 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Online Degree Program

The Online Human Development Degree Program is for students entering their third year status and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online. Students participating in the Online Degree Program may choose from three options: Early Childhood Development, Adult Development and Gerontology, and Women's Development.

The online major consists of 80 units; the B.A. degree requires a total of 180 units, which includes 12-units of lower-division from among three different categories.

Lower Division (12 units)

Select three 4-unit courses from the following categories, with no more than one course from each category.

- A. Anthropology (cultural or social)
- B. Psychology
- C. Sociology
- D. Human biology or physical anthropology
- E. Human or child development
- F. Ethnic or area studies
- G. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Students intending to pursue an online degree will choose 12-units of lower division courses from among three different categories; consult with a Department advisor for direction.

Upper Division (48 units)

Upper Division Standing required prior to taking courses. Please contact your advisor.

Junior Foundation Courses

Twenty-four (24) units required:

- HDEV 3101 - Lifespan Physical and Cognitive Development *Units: 4*
- HDEV 3102 - Lifespan Social and Emotional Development *Units: 4*
- HDEV 3103 - Social and Cultural Dynamics of Human Development *Units: 4*
- HDEV 3201 - Theories of Human Development *Units: 4*
- HDEV 3202 - Research Methods in Human Development *Units: 4*
- HDEV 3203 - Applying Theory and Methods of Human Development *Units: 4*

Lifespan Survey Courses

Sixteen (16) units required:

- HDEV 3301 - Child Development *Units: 4*
- HDEV 3302 - Foundational Aspects of Adolescent Development *Units: 4*
- HDEV 3303 - Adult Development and Aging *Units: 4*
- HDEV 3304 - Girls and Women Across the Lifespan *Units: 4*

Senior Capstone Courses

Eight (8) units required. Completion of all HDEV Junior Foundation and Lifespan Survey courses necessary before enrolling in the Senior Capstone courses. Students must enroll in two consecutive quarters for these two courses:

- HDEV 4811 - Senior Research Seminar in Human Development I *Units: 4*
- HDEV 4812 - Senior Research Seminar in Human Development II *Units: 4*

Option Requirements

To complete the major unit requirements students must choose one (1) of the following options:

Degree Programs

- Human Development, Adolescent Development Option, B.A.
- Human Development, Adult Development and Gerontology Option, B.A.
- Human Development, Childhood Development Option, B.A.
- Human Development, Early Childhood Development Option, B.A.
- Human Development, Women's Development Option, B.A.

Online Degree Programs

The Online Human Development Degree Program is for students entering their *third year status* and is identical to the existing Human Development Program, with the exception that the degree is attained entirely online.

- Human Development, Adult Development and Gerontology Online Option, B.A.
- Human Development, Early Childhood Development Online Option, B.A.
- Human Development, Women's Development Online Option, B.A.

Women's Development Option (20 units)

The Women's Development Option consists of 20 units of required and elective courses that focus on women's biological, psychological, and social development.

Required Courses

Eight (8) units:

- WOST 4130 - Women in Midlife Transition *Units: 4*
- WOST 4160 - Women and Aging *Units: 4*

Elective Courses

Select 4 units from the following:

- HDEV 4310 - Human Development in the Changing Workplace *Units: 4*
- HDEV 4430 - Intimate Relationships Throughout the Lifespan *Units: 4*
- HDEV 4440 - Lesbian and Gay Lifespan Development *Units: 4*
- HDEV 4450 - Human Development and Conflict in Contemporary Society *Units: 4*

Select 8 units from the following:

- ES 3030 - Immigrant and Refugee Women *Units: 4*
- or*
- WOST 3030 - Immigrant and Refugee Women *Units: 4*
- WOST 3050 - Feminist Theory *Units: 4*

- WOST 3400 - Women and Careers *Units: 4*
- WOST 3420 - Minority Women in America *Units: 4*
or
- ES 3420 - Minority Women in America *Units: 4*
- WOST 3520 - Mothers, Daughters, and Sons *Units: 4*
- WOST 3530 - Women and Their Bodies *Units: 4*
- WOST 3545 - Women's Health and Health Care *Units: 4*
- WOST 3550 - Women, Work, and Family Life *Units: 4*

Course Descriptions

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Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

Human Development Minor

Department & Faculty Information

Minor Requirements (24 units)

The minor is designed for students who are interested in the study of human development over the lifespan. The minor consists of 24 units. Select 24 units from any 3000 or 4000 level human development courses.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Women's Studies Minor

Department & Faculty Information

Minor Requirements (24 units)

No more than six units in the major department, nor more than 8 units of lower division courses may be applied to the minor. No more than four units may be taken on a "CR/NC" basis. Altogether, 24 units are required. Students who wish to minor in Women's Studies should see the coordinator as soon as possible.

I. Core Courses (8-12 units)

- WOST 1001 - Perspectives on Women *Units: 4*
- WOST 1002 - Women in Contemporary Society *Units: 4*

II. Electives in Women's Studies (8-12 units)

Two or three courses with special reference to the status and problems of women selected from:

- COMM 4500 - Gender Identity and Representation in Media *Units: 4*
- ENGL 3650 - Women and Literature *Units: 4*
- HIST 3124 - Women in Classical Antiquity *Units: 4*
- HIST 3571 - Women in American History *Units: 4*
- POSC 3340 - Women and Politics *Units: 4*
- PSYC 3410 - Psychology of Women *Units: 4*
- SOC 3411 - Sociology of Gender *Units: 4*
- WOST 3050 - Feminist Theory *Units: 4*
- WOST 3400 - Women and Careers *Units: 4*
- WOST 3420 - Minority Women in America *Units: 4*
- WOST 3520 - Mothers, Daughters, and Sons *Units: 4*
- WOST 3530 - Women and Their Bodies *Units: 4*
- WOST 4900 - Independent Study *Units: 1-4*

III. Elective in a Related Field

Four units should be selected with an advisor in Women's Studies from the following:

If not used to complete requirement II above.

- COMM 4500 - Gender Identity and Representation in Media *Units: 4*
- ENGL 3650 - Women and Literature *Units: 4*
- HIST 3124 - Women in Classical Antiquity *Units: 4*

- HIST 3571 - Women in American History *Units: 4*
- PSYC 3410 - Psychology of Women *Units: 4*
- SOC 3411 - Sociology of Gender *Units: 4*
- WOST 3400 - Women and Careers *Units: 4*
- WOST 3420 - Minority Women in America *Units: 4*
- WOST 3520 - Mothers, Daughters, and Sons *Units: 4*
- WOST 3530 - Women and Their Bodies *Units: 4*
- WOST 4900 - Independent Study *Units: 1-4*

Anthropology

- ANTH 3110 - Primate Social Behavior *Units: 4*
- ANTH 3400 - Social Anthropology *Units: 4*
- ANTH 3740 - Cross-Cultural Studies in Child-Rearing *Units: 4*
- ANTH 3745 - Human Sexuality: Anthropological Perspectives *Units: 4*

Biology

- BIOL 3060 - Human Sexuality *Units: 4*

General Ethnic Studies

- ES 3000 - Ethnic Writers *Units: 4* (when emphasis is on women writers)
- ES 3810 - History of Minority Education *Units: 4*

History

- HIST 4710 - History and Trends in Nursing *Units: 4*

Kinesiology

- KIN 1018 - Beginning Activities: Self Defense-Women *Units: 1*

Modern Language and Literatures

- MLL 4495 - A Single Movement, Country or Theme: Spanish American Literature *Units: 4* (when the theme focuses on women)

Philosophy

- PHIL 3510 - Human Rights and Social Justice: Cultural Groups and Women in the U.S. *Units: 4*
- PHIL 3720 - Feminist Philosophy *Units: 4*

Psychology

- PSYC 3520 - Interpersonal Processes *Units: 4*
- PSYC 3540 - Groups and Organizations *Units: 4*
- PSYC 4420 - Developmental Psychology *Units: 4*
- PSYC 4610 - Psychology of Personality *Units: 4*

Sociology

- SOC 3410 - Sociology of the Family *Units: 4*
- SOC 3415 - Sociology of the African American Family *Units: 4*
- SOC 3416 - Sociology of the Mexican American Family *Units: 4*
- SOC 3500 - Social Psychology *Units: 4*

Note:

It is recommended that all students in the minor take at least one course that has a primary focus on minority women in America.

Other Elective Courses

Other elective courses (with appropriate content) may be approved by the Women's Studies Committee as they are developed by departments.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Certificate (Undergraduate) Program

Early Childhood Development Certificate

Department & Faculty Information

Completion of the Early Childhood Development Certificate Program enables students to complete the required Early Childhood Education or Child Development coursework for the first 3 levels of Child Development Permits (the Assistant Permit, the Associate Teacher Permit, and the Teacher Permit), specified by the California Commission on Teacher Credentialing. These permits are required for teaching at early childhood care and education settings for children from birth to 5 years of age. Most of

the courses for the Certificate can be applied to the Human Development Major with Early Childhood Development Option, if students wish to continue to obtain a BA.

1. Associate Teacher Permit Track (20 units)

Required:

- HDEV 3301 - Child Development *Units: 4*
- HDEV 4060 - Creative and Artistic Development in Early Childhood *Units: 4*
- HDEV 4150 - Children in Families and Communities *Units: 4*

Electives

Choose 2 courses from the following:

- HDEV 4010 - Early Childhood Cognitive Development *Units: 4*
- HDEV 4030 - Early Childhood Social Development *Units: 4*
- HDEV 4120 - Child Language Development *Units: 4*
- HDEV 4140 - Theories of Childhood *Units: 4*

2. Teacher Permit Track (36 units)

- HDEV 3301 - Child Development *Units: 4*
- HDEV 4150 - Children in Families and Communities *Units: 4*
- HDEV 4010 - Early Childhood Cognitive Development *Units: 4*
- HDEV 4030 - Early Childhood Social Development *Units: 4*
- HDEV 4060 - Creative and Artistic Development in Early Childhood *Units: 4*
- HDEV 4120 - Child Language Development *Units: 4*
- HDEV 4140 - Theories of Childhood *Units: 4*
- DANC 3235 - Dance for Children *Units: 4*
- THEA 3650 - Dramatic Activities for Children *Units: 4*

Note:

All courses taken for the Associate Teacher Permit Track may be applied to the Teacher Permit Track.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Department of Kinesiology

The Department Office is located on the 1st Floor of the PE building, Room 130.

Open Hours: 8:00 am to 5:00 pm Monday through Friday.

Faculty

Professors

Rebecca Beal, Ed.D. University of Northern Colorado

Paul Carpenter (Chair), Ph.D. University of California, Los Angeles

Rita M. Liberti, Ph.D. University of Iowa

Penny McCullagh, Ph.D. University of Wisconsin

Jeffery P. Simons, Ph.D. University of Illinois, Urbana-Champaign

Associate Professors

Matthew Atencio, Ph.D. University of Wollongong (Australia)

ZáNean D. McClain, Ph.D. Oregon State University

Catherine Inouye, Ed.D. University of Northern Colorado

My Phung (Jenny) O, Ph.D. University of Western Ontario (Canada)

Assistant Professors

Jennifer Sherwood, Ph.D. Marquette University

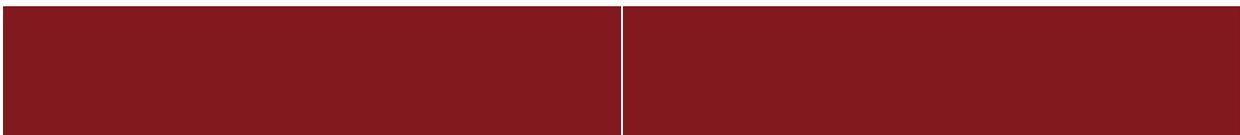
Elizabeth (Missy) Wright, Ph.D. Michigan State University

Vanessa R. Yingling, Ph.D. University of Waterloo (Canada)

Graduate Coordinator: Catherine Inouye

Mission Statement

Kinesiology is the discipline related to the scholarly study of sport, exercise and related activities from anatomical, biomechanical, developmental, physiological, psychological, sociological, philosophical and historical perspectives. Our mission is to prepare graduates who are knowledgeable, professional, and take a multidisciplinary approach to promoting physical activity.





Bachelor of Science

Kinesiology, Exercise, Nutrition, and Wellness Option, B.S.

Department & Faculty Information

Kinesiology (B.S.) 180 units

Program Description

Kinesiology is the disciplinary study of humans as they participate in physical activity. Options offered by the department include Physical Activity Studies; Exercise, Nutrition, and Wellness; Therapeutic Studies; Social Justice; and Physical Education Teaching.

The purposes of the Department of Kinesiology are (1) to provide an opportunity for students to study the discipline of Kinesiology; and (2) to provide opportunities for learning and participation in a wide variety of motor activities. Such study includes an investigation into the nature of physical activity, how it is assessed, what its effects are upon the rest of human bodily systems, and how motor performance is learned. It also involves an investigation of the historical, cultural, philosophical, psychological, and social factors which result from and influence play, games, sports, and physical activity.

The department's program also offers courses appropriate to the general education curriculum of the university in the humanities, social sciences, sciences, and life-long learning. It provides the necessary foundation for students who wish to continue their own personal lifelong activities.

Student Learning Outcomes

Students graduating with a B.S. in Kinesiology from Cal State East Bay will be able to:

1. demonstrate the ability to synthesize and apply perspectives on physical activity from the humanities, and the social-, behavioral-, and life-sciences (cross-disciplinary knowledge);
2. use disciplinary knowledge to design and implement innovative professional applications (problem solving);
3. characterize thought processes by the exploration of discipline-relevant issues, ideas, artifacts, and events before accepting or formulating a perspective (critical thinking);
4. use contextually-grounded and compelling content to articulate physical activity issues in both oral and written form (communication skills), and
5. demonstrate professional dispositions - such as integrity, personal and cultural sensitivity, and collaboration - as well as commitment to social justice for physical activity participants when leading others in a kinesiology-relevant domain.

Career Opportunities

- Activities Director
- Allied Health Fields (Physical Therapy, Occupational Therapy, Chiropractic)
- Coach
- Community College Teacher
- Community Fitness Agency Director
- Exercise/Nutrition Counselor
- Physical Education Teacher
- University Instructor
- Wellness Specialist

Features

Many of the facilities are open to the campus community when not being used for classes. These may include swimming pools, tennis courts, handball courts, fitness center, the gymnasium, and outdoor fields.

Students enrolled in the intercollegiate athletic programs have the opportunity to engage in numerous field trips throughout California and, in some cases, in neighboring states. The intercollegiate athletic program includes: basketball, cross country, golf, soccer, and track for men and women; baseball for men; and softball, swimming, volleyball, and water polo for women.

There is one scholarship housed within the Department of Kinesiology. Recipients of the Joe Morgan Scholarship, named for the Hall of Fame baseball player who is a Cal State East Bay graduate, are identified each Winter with the award(s) applying to the subsequent year. The amount of the Joe Morgan award varies and multiple awards may be given.

Note:

-Students intending to pursue graduate studies in athletic training it is suggested to take:

- KIN 4600 Athletic Training Practicum.
-Students intending to pursue entry into a graduate Entry Level Athletic Education Training Program are strongly encouraged to examine prerequisites for the desired program.

-Students intending to pursue a career in coaching are recommended to take:

- KIN 2600 Prevention and Care of Athletic Injuries;
- KIN 3600 Evaluation and Care of Athletic Injuries;
- KIN 3601 Athletic Training: Modalities and Rehabilitation; *and*
- KIN 4600 Athletic Training Practicum.
-See the Single Subject Matter Preparation in Physical Education in the Programs of Study chapter.

Major Requirements (B.S.) 93-111 units

Consult your advisor for clarification and interpretation of major requirements. The B.S. degree requires a total of 180 units.

- The core major consists of 60 units;
- the Exercise, Nutrition, and Wellness Option consists of 42 units;

- the Physical Activity Studies Option consists of 44 units.
- the Physical Education Teaching Option consists of 38 units;
- the Social Justice Option consists of 44 units.
- the Special Studies Option consists of 33 units;
- the Therapeutic Studies Option consists of 51 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (9 units)

Lower division requirements vary depending on the option, but the following two courses are required for every option:

- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*
or BIOL 2011 Anatomy and Physiology I Units:5
- KIN 1610 - Introduction to Kinesiology *Units: 4*

Upper Division Core (45 units)

- KIN 3300 - Critical Inquiry in Kinesiology *Units: 5*
- KIN 3305 - Structural Kinesiology *Units: 4*
- KIN 3310 - Biomechanics *Units: 5*
- KIN 3320 - Exercise Physiology *Units: 5*
- KIN 3330 - Motor Learning and Control *Units: 5*
- KIN 3340 - Motor Development *Units: 4*
- KIN 3350 - Sport and Exercise Psychology *Units: 5*
- KIN 3701 - History of Physical Activity *Units: 4*
- KIN 3740 - Philosophical Foundations of Kinesiology *Units: 4*
- KIN 3750 - Sport in Contemporary Society *Units: 4*

Performance Requirements (6 units)

One beginning level course must be repeated at the intermediate level. Satisfactory completion in each of five categories; swimming, combatives, teams sports, individual or dual sports, and fitness activities.

Option Requirements

In addition to the lower and upper division Core requirements listed above, students must choose one of the following options to complete the major:

- Kinesiology, Exercise, Nutrition, and Wellness Option, B.S.
- Kinesiology, Physical Activity Studies Option, B.S.
- Kinesiology, Physical Education Teaching Option, B.S.
- Kinesiology, Social Justice Option, B.S.
- Kinesiology, Special Studies Option, B.S.
- Kinesiology, Therapeutic Studies Option, B.S.

Exercise, Nutrition, and Wellness Option (42 units)

The Exercise Nutrition and Wellness option explores the relationship between nutrition and exercise. Both metabolic and behavioral implications are investigated. The major with this option totals 102 units.

Lower Division

- BIOL 2020 - Human Physiology and Anatomy II *Units: 5*
- CHEM 1100 - Introduction to College Chemistry *Units: 5 or equivalent*
- KIN 1625 - Nutrition and Performance *Units: 4*
- KIN 2600 - Prevention and Care of Athletic Injuries *Units: 4*

Upper Division

- KIN 4005 - Exercise Nutrition and Metabolism *Units: 4*
- KIN 4010 - Contemporary Perspectives in Exercise Nutrition *Units: 4*
- KIN 4031 - Professional Field Experience II *Units: 1-4*
- KIN 4330 - Clinical Exercise Physiology *Units: 4*
- KIN 4610 - Exercise Prescription *Units: 4*
- KIN 4615 - Exercise and Stress *Units: 4*

Course Descriptions

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Other Undergraduate Degree Requirements

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Kinesiology, Physical Activity Studies Option, B.S.

Department & Faculty Information

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or BIOL 2011 Anatomy and Physiology I Units:5
- KIN 1610 - Introduction to Kinesiology *Units: 4*

Upper Division Core (45 units)

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- KIN 3305 - Structural Kinesiology *Units: 4*

- KIN 3310 - Biomechanics *Units: 5*
- KIN 3320 - Exercise Physiology *Units: 5*
- KIN 3330 - Motor Learning and Control *Units: 5*
- KIN 3340 - Motor Development *Units: 4*
- KIN 3350 - Sport and Exercise Psychology *Units: 5*
- KIN 3701 - History of Physical Activity *Units: 4*
- KIN 3740 - Philosophical Foundations of Kinesiology *Units: 4*
- KIN 3750 - Sport in Contemporary Society *Units: 4*

Performance Requirements (6 units)

One beginning level course must be repeated at the intermediate level. Satisfactory completion in each of five categories; swimming, combatives, teams sports, individual or dual sports, and fitness activities.

Option Requirements

In addition to the lower and upper division Core requirements listed above, students must choose one of the following options to complete the major:

- Kinesiology, Exercise, Nutrition, and Wellness Option, B.S.
- Kinesiology, Physical Activity Studies Option, B.S.
- Kinesiology, Physical Education Teaching Option, B.S.
- Kinesiology, Social Justice Option, B.S.
- Kinesiology, Special Studies Option, B.S.
- Kinesiology, Therapeutic Studies Option, B.S.

Physical Activity Studies Option (44 units)

Kinesiology is a multidisciplinary field that explores human movement from the perspectives of the humanities and social, behavioral, and life sciences. This option would allow students to take additional classes in Kinesiology from across the spectrum of the discipline.

Forty four (44) units from the following list of courses are required; no more than 8 units can come from Recreation (REC). The major with this option totals 104 units.

- KIN 3200 - Sport in Film: Cultural Perspectives *Units: 4*
- KIN 3205 - Mental Skills for Performance *Units: 4*
- KIN 3210 - Science of Expertise *Units: 4*
- KIN 3600 - Evaluation and Care of Athletic Injuries *Units: 5*
- KIN 3601 - Athletic Training: Modalities and Rehabilitation *Units: 4*
- KIN 3735 - Sport, Racism, and Ethnicity *Units: 4*
- KIN 4008 - Adapted Physical Activity *Units: 4*
- KIN 4010 - Contemporary Perspectives in Exercise Nutrition *Units: 4*
- KIN 4090 - Computer Application in Kinesiology *Units: 4*
- KIN 4330 - Clinical Exercise Physiology *Units: 4*
- KIN 4610 - Exercise Prescription *Units: 4*
- KIN 4615 - Exercise and Stress *Units: 4*

- REC 3000 - Philosophy of Leisure *Units: 4*
- REC 3200 - Wellness Through Leisure *Units: 4*
- REC 3202 - Women and Leisure *Units: 4*
- REC 3300 - Leadership in Hospitality, Recreation and Tourism *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Kinesiology, Physical Education Teaching Option, B.S.

Department & Faculty Information

Kinesiology (B.S.) 180 units

Program Description

Kinesiology is the disciplinary study of humans as they participate in physical activity. Options offered by the department include Physical Activity Studies; Exercise, Nutrition, and Wellness; Therapeutic Studies; Social Justice; and Physical Education Teaching.

The purposes of the Department of Kinesiology are (1) to provide an opportunity for students to study the discipline of Kinesiology; and (2) to provide opportunities for learning and participation in a wide variety of motor activities. Such study includes an investigation into the nature of physical activity, how it is assessed, what its effects are upon the rest of human bodily systems, and how motor performance is learned. It also involves an investigation of the historical, cultural, philosophical, psychological, and social factors which result from and influence play, games, sports, and physical activity.

The department's program also offers courses appropriate to the general education curriculum of the university in the humanities, social sciences, sciences, and life-long learning. It provides the necessary foundation for students who wish to continue their own personal lifelong activities.

Student Learning Outcomes

Students graduating with a B.S. in Kinesiology from Cal State East Bay will be able to:

1. demonstrate the ability to synthesize and apply perspectives on physical activity from the humanities, and the social-, behavioral-, and life-sciences (cross-disciplinary knowledge);

2. use disciplinary knowledge to design and implement innovative professional applications (problem solving);
3. characterize thought processes by the exploration of discipline-relevant issues, ideas, artifacts, and events before accepting or formulating a perspective (critical thinking);
4. use contextually-grounded and compelling content to articulate physical activity issues in both oral and written form (communication skills), and
5. demonstrate professional dispositions - such as integrity, personal and cultural sensitivity, and collaboration - as well as commitment to social justice for physical activity participants when leading others in a kinesiology-relevant domain.

Career Opportunities

- Activities Director
- Allied Health Fields (Physical Therapy, Occupational Therapy, Chiropractic)
- Coach
- Community College Teacher
- Community Fitness Agency Director
- Exercise/Nutrition Counselor
- Physical Education Teacher
- University Instructor
- Wellness Specialist

Features

Many of the facilities are open to the campus community when not being used for classes. These may include swimming pools, tennis courts, handball courts, fitness center, the gymnasium, and outdoor fields.

Students enrolled in the intercollegiate athletic programs have the opportunity to engage in numerous field trips throughout California and, in some cases, in neighboring states. The intercollegiate athletic program includes: basketball, cross country, golf, soccer, and track for men and women; baseball for men; and softball, swimming, volleyball, and water polo for women.

There is one scholarship housed within the Department of Kinesiology. Recipients of the Joe Morgan Scholarship, named for the Hall of Fame baseball player who is a Cal State East Bay graduate, are identified each Winter with the award(s) applying to the subsequent year. The amount of the Joe Morgan award varies and multiple awards may be given.

Note:

-Students intending to pursue graduate studies in athletic training it is suggested to take:

- KIN 4600 Athletic Training Practicum.
-Students intending to pursue entry into a graduate Entry Level Athletic Education Training Program are strongly encouraged to examine prerequisites for the desired program.

-Students intending to pursue a career in coaching are recommended to take:

- KIN 2600 Prevention and Care of Athletic Injuries;
- KIN 3600 Evaluation and Care of Athletic Injuries;
- KIN 3601 Athletic Training: Modalities and Rehabilitation; *and*

- KIN 4600 Athletic Training Practicum.
-See the **Single Subject Matter Preparation in Physical Education in the Programs of Study** chapter.

Major Requirements (B.S.) 93-111 units

Consult your advisor for clarification and interpretation of major requirements. The B.S. degree requires a total of 180 units.

- The core major consists of 60 units;
- the Exercise, Nutrition, and Wellness Option consists of 42 units;
- the Physical Activity Studies Option consists of 44 units.
- the Physical Education Teaching Option consists of 38 units;
- the Social Justice Option consists of 44 units.
- the Special Studies Option consists of 33 units;
- the Therapeutic Studies Option consists of 51 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (9 units)

Lower division requirements vary depending on the option, but the following two courses are required for every option:

- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*
or BIOL 2011 Anatomy and Physiology I Units:5
- KIN 1610 - Introduction to Kinesiology *Units: 4*

Upper Division Core (45 units)

- KIN 3300 - Critical Inquiry in Kinesiology *Units: 5*
- KIN 3305 - Structural Kinesiology *Units: 4*
- KIN 3310 - Biomechanics *Units: 5*
- KIN 3320 - Exercise Physiology *Units: 5*
- KIN 3330 - Motor Learning and Control *Units: 5*
- KIN 3340 - Motor Development *Units: 4*
- KIN 3350 - Sport and Exercise Psychology *Units: 5*
- KIN 3701 - History of Physical Activity *Units: 4*
- KIN 3740 - Philosophical Foundations of Kinesiology *Units: 4*
- KIN 3750 - Sport in Contemporary Society *Units: 4*

Performance Requirements (6 units)

One beginning level course must be repeated at the intermediate level. Satisfactory completion in each of five categories; swimming, combatives, teams sports, individual or dual sports, and fitness activities.

Option Requirements

In addition to the lower and upper division Core requirements listed above, students must choose one of the following options to complete the major:

- Kinesiology, Exercise, Nutrition, and Wellness Option, B.S.
- Kinesiology, Physical Activity Studies Option, B.S.
- Kinesiology, Physical Education Teaching Option, B.S.
- Kinesiology, Social Justice Option, B.S.
- Kinesiology, Special Studies Option, B.S.
- Kinesiology, Therapeutic Studies Option, B.S.

Physical Education Teaching Option (38 units)

The Physical Education Teaching Option is designed to prepare students for teaching physical education in grades K-12 in public and private schools. The required courses in the B.S. Kinesiology, Physical Education Teaching Option, meet the Physical Education undergraduate Single Subject Matter Preparation requirements established by the California Commission on Teacher Credentialing (CCTC). To earn the Single Subject Teaching Credential in Physical Education, students must complete an additional year of study in the credential program offered in the Department of Teacher Education. The major with this option totals 98 units.

Lower Division

- KIN 2650 - CPR and First Aid *Units: 2*

Upper Division

Theory-Analysis-Practice Courses

Sixteen (16) units:

- DANC 3235 - Dance for Children *Units: 4*
- KIN 3072 - Individual and Dual Sports *Units: 3*
- KIN 3075 - Aquatics and Outdoor Education *Units: 3*
- KIN 3079 - Combatives and Fitness Activities *Units: 3*
- KIN 3080 - Team Sports and Field Sports *Units: 3*

Foundation Course

Four (4) units:

- KIN 4008 - Adapted Physical Activity *Units: 4*

Pedagogical Courses

Twelve (12) units:

- KIN 4004 - Elementary School Physical Education *Units: 4*
- KIN 4006 - Secondary School Physical Education *Units: 4*
- KIN 4090 - Computer Application in Kinesiology *Units: 4*

Field Experience

- KIN 4031 - Professional Field Experience II *Units: 1-4*
(Must be taken concurrently with KIN 4004 and 4006)

Course Descriptions

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Other Undergraduate Degree Requirements

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Kinesiology, Social Justice Option, B.S.

Department & Faculty Information

Kinesiology (B.S.) 180 units

Program Description

Kinesiology is the disciplinary study of humans as they participate in physical activity. Options offered by the department include Physical Activity Studies; Exercise, Nutrition, and Wellness; Therapeutic Studies; Social Justice; and Physical Education Teaching.

The purposes of the Department of Kinesiology are (1) to provide an opportunity for students to study the discipline of Kinesiology; and (2) to provide opportunities for learning and participation in a wide variety of motor activities. Such study includes an investigation into the nature of physical activity, how it is assessed, what its effects are upon the rest of human bodily systems, and how motor performance is learned. It also involves an investigation of the historical, cultural, philosophical, psychological, and social factors which result from and influence play, games, sports, and physical activity.

The department's program also offers courses appropriate to the general education curriculum of the university in the humanities, social sciences, sciences, and life-long learning. It provides the necessary foundation for students who wish to continue their own personal lifelong activities.

Student Learning Outcomes

Students graduating with a B.S. in Kinesiology from Cal State East Bay will be able to:

1. demonstrate the ability to synthesize and apply perspectives on physical activity from the humanities, and the social-, behavioral-, and life-sciences (cross-disciplinary knowledge);
2. use disciplinary knowledge to design and implement innovative professional applications (problem solving);
3. characterize thought processes by the exploration of discipline-relevant issues, ideas, artifacts, and events before accepting or formulating a perspective (critical thinking);
4. use contextually-grounded and compelling content to articulate physical activity issues in both oral and written form (communication skills), and

5. demonstrate professional dispositions - such as integrity, personal and cultural sensitivity, and collaboration - as well as commitment to social justice for physical activity participants when leading others in a kinesiology-relevant domain.

Career Opportunities

- Activities Director
- Allied Health Fields (Physical Therapy, Occupational Therapy, Chiropractic)
- Coach
- Community College Teacher
- Community Fitness Agency Director
- Exercise/Nutrition Counselor
- Physical Education Teacher
- University Instructor
- Wellness Specialist

Features

Many of the facilities are open to the campus community when not being used for classes. These may include swimming pools, tennis courts, handball courts, fitness center, the gymnasium, and outdoor fields.

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There is one scholarship housed within the Department of Kinesiology. Recipients of the Joe Morgan Scholarship, named for the Hall of Fame baseball player who is a Cal State East Bay graduate, are identified each Winter with the award(s) applying to the subsequent year. The amount of the Joe Morgan award varies and multiple awards may be given.

Note:

-Students intending to pursue graduate studies in athletic training it is suggested to take:

- KIN 4600 Athletic Training Practicum.
-Students intending to pursue entry into a graduate Entry Level Athletic Education Training Program are strongly encouraged to examine prerequisites for the desired program.

-Students intending to pursue a career in coaching are recommended to take:

- KIN 2600 Prevention and Care of Athletic Injuries;
- KIN 3600 Evaluation and Care of Athletic Injuries;
- KIN 3601 Athletic Training: Modalities and Rehabilitation; *and*
- KIN 4600 Athletic Training Practicum.
-See the **Single Subject Matter Preparation in Physical Education in the Programs of Study** chapter.

Major Requirements (B.S.) 93-111 units

Consult your advisor for clarification and interpretation of major requirements. The B.S. degree requires a total of 180 units.

- The core major consists of 60 units;
- the Exercise, Nutrition, and Wellness Option consists of 42 units;
- the Physical Activity Studies Option consists of 44 units.
- the Physical Education Teaching Option consists of 38 units;
- the Social Justice Option consists of 44 units.
- the Special Studies Option consists of 33 units;
- the Therapeutic Studies Option consists of 51 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (9 units)

Lower division requirements vary depending on the option, but the following two courses are required for every option:

- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*
or BIOL 2011 Anatomy and Physiology I Units:5
- KIN 1610 - Introduction to Kinesiology *Units: 4*

Upper Division Core (45 units)

- KIN 3300 - Critical Inquiry in Kinesiology *Units: 5*
- KIN 3305 - Structural Kinesiology *Units: 4*
- KIN 3310 - Biomechanics *Units: 5*
- KIN 3320 - Exercise Physiology *Units: 5*
- KIN 3330 - Motor Learning and Control *Units: 5*
- KIN 3340 - Motor Development *Units: 4*
- KIN 3350 - Sport and Exercise Psychology *Units: 5*
- KIN 3701 - History of Physical Activity *Units: 4*
- KIN 3740 - Philosophical Foundations of Kinesiology *Units: 4*
- KIN 3750 - Sport in Contemporary Society *Units: 4*

Performance Requirements (6 units)

One beginning level course must be repeated at the intermediate level. Satisfactory completion in each of five categories; swimming, combatives, teams sports, individual or dual sports, and fitness activities.

Option Requirements

In addition to the lower and upper division Core requirements listed above, students must choose one of the following options to complete the major:

- Kinesiology, Exercise, Nutrition, and Wellness Option, B.S.
- Kinesiology, Physical Activity Studies Option, B.S.
- Kinesiology, Physical Education Teaching Option, B.S.

- Kinesiology, Social Justice Option, B.S.
- Kinesiology, Special Studies Option, B.S.
- Kinesiology, Therapeutic Studies Option, B.S.

Social Justice Option (44 units)

Kinesiology is a multidisciplinary field that explores human movement from the perspectives of the humanities and social, behavioral, and life sciences. This option would allow students to focus on issues related to social justice, sport, and physical activity. The major with this option totals 104 units.

Required Courses

- KIN 2700 - Women and Sport *Units: 4*
- KIN 3200 - Sport in Film: Cultural Perspectives *Units: 4*
- KIN 3735 - Sport, Racism, and Ethnicity *Units: 4*

Elective Courses

Select 8 courses (32 units) from at least 4 different departments listed below:

- ANTH 3750 - Women in Cross-Cultural Perspective *Units: 4*
- COMM 4610 - Rhetoric of Popular Culture *Units: 4*
- DANC 3300 - Sex, Race, and Body Politics in Dance *Units: 4*
- ES 3165 - African American Sexuality *Units: 4*
- ES 3265 - Latino/a Sexualities *Units: 4*
- ES 3710 - Racialized Masculinities *Units: 4*
- ES 3730 - Women of Color, Genders and Sexualities *Units: 4*
- ES 4300 - Queer of Color Subjects and Critical Theory *Units: 4*
- HIST 3572 - American Women in the Twentieth Century *Units: 4*
- KIN 4008 - Adapted Physical Activity *Units: 4*
- PHIL 3502 - Social and Political Philosophy *Units: 4*
- PHIL 3510 - Human Rights and Social Justice: Cultural Groups and Women in the U.S. *Units: 4*
- PHIL 3511 - Philosophy of Human Rights and Global Justice *Units: 4*
- PHIL 3515 - Race and Social Justice *Units: 4*
- POSC 3333 - Ethnic and Minority Politics *Units: 4*
- POSC 3340 - Women and Politics *Units: 4*
- REC 4050 - Social Justice in Hospitality, Recreation and Tourism *Units: 4*

- SOC 3420 - Social Inequality *Units: 4*
- SOC 3425 - Prejudice and Discrimination *Units: 4*
- SOC 3411 - Sociology of Gender *Units: 4*
- SOC 3510 - Sociology of Identity *Units: 4*
- SOC 3520 - Sociology of Race and Ethnic Relations *Units: 4*
- THEA 3209 - Sex, Love, and Women on Stage and in Film *Units: 4*
- WOST 3530 - Women and Their Bodies *Units: 4*
- WOST 3545 - Women's Health and Health Care *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Kinesiology, Special Studies Option, B.S.

Department & Faculty Information

Kinesiology (B.S.) 180 units

Program Description

Kinesiology is the disciplinary study of humans as they participate in physical activity. Options offered by the department include Physical Activity Studies; Exercise, Nutrition, and Wellness; Therapeutic Studies; Social Justice; and Physical Education Teaching.

The purposes of the Department of Kinesiology are (1) to provide an opportunity for students to study the discipline of Kinesiology; and (2) to provide opportunities for learning and participation in a wide variety of motor activities. Such study includes an investigation into the nature of physical activity, how it is assessed, what its effects are upon the rest of human bodily systems, and how motor performance is learned. It also involves an investigation of the historical, cultural, philosophical, psychological, and social factors which result from and influence play, games, sports, and physical activity.

The department's program also offers courses appropriate to the general education curriculum of the university in the humanities, social sciences, sciences, and life-long learning. It provides the necessary foundation for students who wish to continue their own personal lifelong activities.

Student Learning Outcomes

Students graduating with a B.S. in Kinesiology from Cal State East Bay will be able to:

1. demonstrate the ability to synthesize and apply perspectives on physical activity from the humanities, and the social-, behavioral-, and life-sciences (cross-disciplinary knowledge);
2. use disciplinary knowledge to design and implement innovative professional applications (problem solving);
3. characterize thought processes by the exploration of discipline-relevant issues, ideas, artifacts, and events before accepting or formulating a perspective (critical thinking);
4. use contextually-grounded and compelling content to articulate physical activity issues in both oral and written form (communication skills), and
5. demonstrate professional dispositions - such as integrity, personal and cultural sensitivity, and collaboration - as well as commitment to social justice for physical activity participants when leading others in a kinesiology-relevant domain.

Career Opportunities

- Activities Director
- Allied Health Fields (Physical Therapy, Occupational Therapy, Chiropractic)
- Coach
- Community College Teacher
- Community Fitness Agency Director
- Exercise/Nutrition Counselor
- Physical Education Teacher
- University Instructor
- Wellness Specialist

Features

Many of the facilities are open to the campus community when not being used for classes. These may include swimming pools, tennis courts, handball courts, fitness center, the gymnasium, and outdoor fields.

Students enrolled in the intercollegiate athletic programs have the opportunity to engage in numerous field trips throughout California and, in some cases, in neighboring states. The intercollegiate athletic program includes: basketball, cross country, golf, soccer, and track for men and women; baseball for men; and softball, swimming, volleyball, and water polo for women.

There is one scholarship housed within the Department of Kinesiology. Recipients of the Joe Morgan Scholarship, named for the Hall of Fame baseball player who is a Cal State East Bay graduate, are identified each Winter with the award(s) applying to the subsequent year. The amount of the Joe Morgan award varies and multiple awards may be given.

Note:

-Students intending to pursue graduate studies in athletic training it is suggested to take:

- KIN 4600 Athletic Training Practicum.

-Students intending to pursue entry into a graduate Entry Level Athletic Education Training Program are strongly encouraged to examine prerequisites for the desired program.

-Students intending to pursue a career in coaching are recommended to take:

- KIN 2600 Prevention and Care of Athletic Injuries;
- KIN 3600 Evaluation and Care of Athletic Injuries;
- KIN 3601 Athletic Training: Modalities and Rehabilitation; *and*
- KIN 4600 Athletic Training Practicum.

-See the Single Subject Matter Preparation in Physical Education in the Programs of Study chapter.

Major Requirements (B.S.) 93-111 units

Consult your advisor for clarification and interpretation of major requirements. The B.S. degree requires a total of 180 units.

- The core major consists of 60 units;
- the Exercise, Nutrition, and Wellness Option consists of 42 units;
- the Physical Activity Studies Option consists of 44 units.
- the Physical Education Teaching Option consists of 38 units;
- the Social Justice Option consists of 44 units.
- the Special Studies Option consists of 33 units;
- the Therapeutic Studies Option consists of 51 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (9 units)

Lower division requirements vary depending on the option, but the following two courses are required for every option:

- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*
or BIOL 2011 Anatomy and Physiology I Units:5
- KIN 1610 - Introduction to Kinesiology *Units: 4*

Upper Division Core (45 units)

- KIN 3300 - Critical Inquiry in Kinesiology *Units: 5*
- KIN 3305 - Structural Kinesiology *Units: 4*
- KIN 3310 - Biomechanics *Units: 5*
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- KIN 3330 - Motor Learning and Control *Units: 5*
- KIN 3340 - Motor Development *Units: 4*
- KIN 3350 - Sport and Exercise Psychology *Units: 5*
- KIN 3701 - History of Physical Activity *Units: 4*
- KIN 3740 - Philosophical Foundations of Kinesiology *Units: 4*
- KIN 3750 - Sport in Contemporary Society *Units: 4*

Performance Requirements (6 units)

One beginning level course must be repeated at the intermediate level. Satisfactory completion in each of five categories; swimming, combatives, teams sports, individual or dual sports, and fitness activities.

Option Requirements

In addition to the lower and upper division Core requirements listed above, students must choose one of the following options to complete the major:

- Kinesiology, Exercise, Nutrition, and Wellness Option, B.S.
- Kinesiology, Physical Activity Studies Option, B.S.
- Kinesiology, Physical Education Teaching Option, B.S.
- Kinesiology, Social Justice Option, B.S.
- Kinesiology, Special Studies Option, B.S.
- Kinesiology, Therapeutic Studies Option, B.S.

Special Studies Option (33 units)

The Special Studies option provides students the opportunity to design an individualized course of study which focuses upon interdisciplinary topics or themes related to Kinesiology. A unique aspect of this option is the requirement of coursework outside the department which is related to sport and exercise phenomena (e.g., mass communication and sport, business management and fitness programs). The major with this option totals 93 units minimum.

All Special Studies option programs must receive approval from the department chair before coursework is initiated.

Required Courses

Seventeen (17) units required. *These courses may also satisfy GE Areas.*

- ANTH 3750 - Women in Cross-Cultural Perspective *Units: 4*
- PHIL 3502 - Social and Political Philosophy *Units: 4*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 3050 - Statistics: from Data to Decisions *Units: 4*

Electives

In addition the required units above, students must complete 16 units of upper-division Kinesiology courses. Approval from the department chair must be obtained prior to initiating coursework.

Course Descriptions

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Other Undergraduate Degree Requirements

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Kinesiology, Therapeutic Studies Option, B.S.

Department & Faculty Information

Kinesiology (B.S.) 180 units

Program Description

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Career Opportunities

- Activities Director

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- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (9 units)

Lower division requirements vary depending on the option, but the following two courses are required for every option:

- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*
or BIOL 2011 Anatomy and Physiology I Units:5
- KIN 1610 - Introduction to Kinesiology *Units: 4*

Upper Division Core (45 units)

- KIN 3300 - Critical Inquiry in Kinesiology *Units: 5*
- KIN 3305 - Structural Kinesiology *Units: 4*
- KIN 3310 - Biomechanics *Units: 5*
- KIN 3320 - Exercise Physiology *Units: 5*
- KIN 3330 - Motor Learning and Control *Units: 5*
- KIN 3340 - Motor Development *Units: 4*
- KIN 3350 - Sport and Exercise Psychology *Units: 5*
- KIN 3701 - History of Physical Activity *Units: 4*
- KIN 3740 - Philosophical Foundations of Kinesiology *Units: 4*
- KIN 3750 - Sport in Contemporary Society *Units: 4*

Performance Requirements (6 units)

One beginning level course must be repeated at the intermediate level. Satisfactory completion in each of five categories; swimming, combatives, teams sports, individual or dual sports, and fitness activities.

Option Requirements

In addition to the lower and upper division Core requirements listed above, students must choose one of the following options to complete the major:

- Kinesiology, Exercise, Nutrition, and Wellness Option, B.S.
- Kinesiology, Physical Activity Studies Option, B.S.
- Kinesiology, Physical Education Teaching Option, B.S.
- Kinesiology, Social Justice Option, B.S.
- Kinesiology, Special Studies Option, B.S.
- Kinesiology, Therapeutic Studies Option, B.S.

Therapeutic Studies Option (51 units)

The Therapeutic Studies Option satisfies the majority of, if not all, the prerequisite coursework needed to gain admission to various schools of Physical Therapy, Occupational Therapy, and Chiropractic, as well as other allied health fields, such as Athletic Training. It is always advisable to check with desired schools for specific requirements. The major with this option totals 111 units.

Lower Division

Forty-two (42) units required:

- BIOL 1401 - Molecular and Cellular Biology *Units: 5*
- BIOL 1403 - Animal Biology *Units: 5*
- BIOL 2020 - Human Physiology and Anatomy II *Units: 5*
- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Upper Division

Nine (9) units required:

- KIN 3600 - Evaluation and Care of Athletic Injuries *Units: 5*
- KIN 4030 - Professional Field Experience I *Units: 1-4*
- KIN 4031 - Professional Field Experience II *Units: 1-4*

Recommended Courses:

Professional graduate programs in the Allied Health Fields may require additional classes. Most schools of Physical Therapy also require a course in abnormal psychology. Additional courses that may be useful:

- BIOL 2025 - Introduction to Microbiology *Units: 5*
- BIOL 4160 - Medical Physiology *Units: 4*
- CHEM 2301 - Survey of Organic Chemistry *Units: 4*
- KIN 3601 - Athletic Training: Modalities and Rehabilitation *Units: 4*
- KIN 4008 - Adapted Physical Activity *Units: 4*
- KIN 4330 - Clinical Exercise Physiology *Units: 4*
- KIN 4610 - Exercise Prescription *Units: 4*
- KIN 4615 - Exercise and Stress *Units: 4*
- PSYC 4420 - Developmental Psychology *Units: 4*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Single Subject Preparation (Undergraduate)

Physical Education, Single Subject Matter Preparation

Department & Faculty Information

Single Subject Matter Preparation Programs

- Foundational-level Mathematics, Single Subject Matter Preparation
- Mathematics, Single Subject Matter Preparation
- Music, Single Subject Matter Preparation Program
- Physical Education, Single Subject Matter Preparation
- Social Science, Single Subject Matter Preparation

Single Subject Matter Preparation: Physical Education

Completion of the Single Subject Matter Preparation Program in Physical Education is certified by the Department of Kinesiology. The Single Subject Matter Preparation Program in Physical Education requires 98-102 units. For additional information, contact the Department of Kinesiology: Physical Education Bldg. 130; 510-885-3061; website: www20.csueastbay.edu/ceas/departments/kin/index.html.

Required Courses (98-102 units)

- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*
or
- BIOL 2011 - Anatomy and Physiology I *Units: 5*

- DANC 3235 - Dance for Children *Units: 4*
- KIN 1610 - Introduction to Kinesiology *Units: 4*
- KIN 2650 - CPR and First Aid *Units: 2*
- KIN 3072 - Individual and Dual Sports *Units: 3*
- KIN 3075 - Aquatics and Outdoor Education *Units: 3*
- KIN 3079 - Combatives and Fitness Activities *Units: 3*
- KIN 3080 - Team Sports and Field Sports *Units: 3*
- KIN 3300 - Critical Inquiry in Kinesiology *Units: 5*

- KIN 3305 - Structural Kinesiology *Units: 4*
- KIN 3310 - Biomechanics *Units: 5*
- KIN 3320 - Exercise Physiology *Units: 5*
- KIN 3330 - Motor Learning and Control *Units: 5*
- KIN 3340 - Motor Development *Units: 4*
- KIN 3350 - Sport and Exercise Psychology *Units: 5*
- KIN 3700 - History of Sport and Physical Education *Units: 4*
- KIN 3740 - Philosophical Foundations of Kinesiology *Units: 4*
- KIN 3750 - Sport in Contemporary Society *Units: 4*
- KIN 4004 - Elementary School Physical Education *Units: 4*
- KIN 4006 - Secondary School Physical Education *Units: 4*
- KIN 4008 - Adapted Physical Activity *Units: 4*
- KIN 4031 - Professional Field Experience II *Units: 1-4*
- KIN activities *Units: 6-10*

At least one in each of swimming, combative, team, individual or dual, fitness activities. One beginning course must be repeated at the intermediate level.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Science

Kinesiology, M.S.

Department & Faculty Information

Kinesiology (M.S.) 45 units

Program Description

The Department of Kinesiology offers programs focusing on fundamental analysis of sport exercise and physical activity phenomena. The purpose of the Master of Science degree program is to give students a cross-disciplinary knowledge of kinesiology and develop their scholarly skills. The program serves as a terminal degree for professionals as well as preparation for those intending to complete a doctorate. Because most students are working professionals, graduate courses are offered during the evening hours.

Student Learning Outcomes

Students who graduate with an M.S. in Kinesiology will be able to:

- Demonstrate the ability to synthesize and apply perspectives from the humanities, and the social-, behavioral-, and life-sciences.
- Use disciplinary knowledge to design and implement innovative professional application.
- Characterize thought processes by the exploration of discipline-relevant issues, ideas, artifacts, and events before accepting or formulating a perspective.
- Use contextually-grounded and compelling content to articulate physical activity issues in both oral and written form.
- Demonstrate professional dispositions - such as integrity, personal and cultural sensitivity, and collaboration - as well as commitment to social justice for physical activity participants when leading others in a kinesiology-relevant domain.

Career Opportunities

Athletic Director

Cardiopulmonary Rehabilitation Specialist

Community College Teacher

Corporate Fitness Director

Intercollegiate and Interscholastic Coach

Exercise Physiologist

Personal Trainer

Physical Education Administrator

Physical Education Teacher

Sport Psychology Consultant

University Instructor

Wellness Counselor/Educator

Faculty: Areas of Specialization

Matthew Atencio, Ph.D.: Sport sociology, sport philosophy, research methodologies, physical education pedagogy, educational theory

Rebecca Beal, Ed.D: Sport philosophy, sport sociology

Paul Carpenter, Ph.D.: Sport and exercise psychology, endurance sport

Catherine Inouye, Ed.D.: Exercise physiology, exercise nutrition

Rita Liberti, Ph.D.: Sport sociology, sport history

Penny McCullagh, Ph.D.: Sport and exercise psychology, motor learning, development, observational learning

Za'Neen D. McClain, Ph.D.: Sport pedagogy

My Phung (Jenny) O, Ph.D.: Enhancing optimal performance, sport and exercise psychology, motor learning and control

Jennifer Sherwood, Ph.D.: Effects of exercise on cognitive performance

Jeffery P. Simons, Ph.D.: Sport and exercise psychology, lifetime physical activity participation, motor learning and control

Missy Wright, Ph.D.: Sport and exercise psychology, measurement and evaluation

Vanessa Yingling, Ph.D.: Biomechanics, bone physiology and mechanics

Features

Upon acceptance into the program, students are immediately directed to a faculty member who will assist them in developing a course of study. Emphasis areas include, but are not limited to, exercise physiology, psychology of physical activity, teaching and coaching, socio-cultural influences on physical activity.

The department offers a complete range of laboratory facilities and technologies for graduate students. These resources enable comprehensive research opportunities in all areas of study. Motion analysis software, ventilatory gas analysis, biofeedback, coincidence timing, nutritional analysis, bone scanner, body composition analysis and computer statistical packages are examples of available tools.

Other features include the potential for individualized programs of study to meet specific interests and needs, extensive library resources, and an instructional format which stimulates high interaction among students and promotes independent scholarship.

Admission to the Program in "Classified Graduate" Status

Eligibility for admission to the M.S. degree program in "Classified Graduate" status requires a student to have a baccalaureate degree with a major approximately equivalent to the Cal State East Bay B.S. degree in kinesiology. The graduate coordinator or department chair will determine degree equivalencies. Students must also have attained at least a 3.00 grade point average in the major and have satisfied the University Writing Skills requirement.

The department encourages students to meet university prescribed deadlines for admission into the program beginning in the fall quarter, although the department is willing to accept graduate students into the program during winter and spring quarters.

"Conditionally Classified Graduate" Status

Students who are judged to be admissible, but who do not meet all of the admission requirements specified above for "Classified Graduate" status, receive "Conditionally Classified Graduate" standing. Such students may need to complete certain undergraduate prerequisites in preparation for graduate study and/or may have other deficiencies, such as the University Writing Skills requirement, that must be resolved within the first two quarters of enrollment. Each student will be judged on an individual basis. The department may require the Graduate Record Examination (GRE), Aptitude Test Score, three letters of recommendation from former professors, written essay, and/or the repeat of undergraduate coursework in the case of below-standard grade point averages.

Generally, courses taken to resolve deficiencies will not count for credit in the M.S. program. In no case will more than 13 quarter units taken in "Unclassified Post-baccalaureate" standing or at another university be counted toward the M.S. degree.

Advancement to Candidacy

"Classified Graduate" students are eligible for Advancement to Candidacy based on the criteria given below.

Maintain a 3.00 grade point average in all graduate work completed.

Complete KIN 6000 at the first opportunity and no later than the first three quarters in the program.

Submit to the graduate coordinator an approved program of study developed in conjunction with the appropriate faculty committee.

Have passed the Writing Skills requirement or equivalency.

Prerequisite Courses

In the absence of an appropriate undergraduate degree, prerequisite coursework must be completed. Generally, courses taken to resolve deficiencies will not count for credit in the M.S. program. Preparatory work for students with undergraduate degrees in other fields is described below. Note: these courses must be completed with a grade of "B" or higher in each course, prior to enrollment in any graduate class.

Degree Requirements

The Master of Science degree will be awarded when the general requirements listed below have been successfully completed:

Completion of a minimum of 45 quarter units of approved upper division and graduate courses

A minimum grade point average of 3.00

Completion of a Culminating Experience (specific requirements for the Culminating Experience Project are described in the Graduate Handbook).

In addition to departmental requirements, every student must also satisfy the university requirements for graduation which are described in the Graduate Degree Information chapter in this catalog. These

requirements include the 32-unit residence requirement, the five-year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661

Curricular Requirements (45-50 units)

Note: Maximum of a combined five (5) units of KIN 6850 and KIN 6900 may be used to meet the 45 minimum unit requirement. These courses are restricted to those students who are working closely with a faculty advisor who has deemed the student suitable for this type of independent scholarly work. Additional courses may be selected in consultation with the academic advisor.

Prerequisite Courses (35-37 units)

Generally, courses taken to resolve deficiencies will not count for credit in the M.S. program. These courses must be completed with a grade of "B" or higher in each course, prior to enrollment in any graduate class.

Note: Waiver of one or more of these requirements will be considered if comparable coursework has been completed, or if the student has strong compensating academic strengths in areas related to the graduate program (a degree in Physical Therapy, for example). All requests for such waivers and their justification must be approved by academic advisor and submitted in writing to the graduate coordinator.

- KIN 3300 - Critical Inquiry in Kinesiology *Units: 5*
- KIN 3305 - Structural Kinesiology *Units: 4*

- KIN 3310 - Biomechanics *Units: 5*
or
- KIN 3340 - Motor Development *Units: 4*

- KIN 3320 - Exercise Physiology *Units: 5*
- KIN 3330 - Motor Learning and Control *Units: 5*
- KIN 3350 - Sport and Exercise Psychology *Units: 5*
- KIN 3700 - History of Sport and Physical Education *Units: 4*

- KIN 3740 - Philosophical Foundations of Kinesiology *Units: 4*
or
- KIN 3750 - Sport in Contemporary Society *Units: 4*

Required Courses

- KIN 6000 - Foundations of Graduate Study and Research *Units: 5*
- KIN 6411 - Psychology of Physical Activity *Units: 4*
- KIN 6435 - Critical Perspectives on the Body *Units: 4*
- KIN 6655 - Physiological Perspectives on Health and Wellness *Units: 4*
- KIN 6710 - Synthesis in Kinesiology *Units: 4*

Elective Courses

Students, in consultation with their academic advisor, will develop an academic program of study selected from the following elective courses for a total of 24 units:

- **KIN 5900 - Independent Study** *Units: 1-4 Note: Consult an advisor to determine if this course can be applied to the M.S. degree.*
- **KIN 6412 - Psychomotor Skill Acquisition** *Units: 4*
- **KIN 6413 - Mental Skills for Physical Performance** *Units: 4*
- **KIN 6416 - Exercise Psychology** *Units: 4*
- **KIN 6425 - Political Issues in Kinesiology** *Units: 4*
- **KIN 6445 - Social Inclusion in Physical Activity** *Units: 4*
- **KIN 6470 - Seminar in Exercise and Nutrition** *Units: 4*
- **KIN 6605 - Teaching and Coaching Effectiveness** *Units: 4*
- **KIN 6670 - Training for Physical Performance** *Units: 4*
- **KIN 6700 - Seminar: Contemporary Issues in Kinesiology** *Units: 4*
- **KIN 6850 - Supervised Research** *Units: 2-4*
- **KIN 6900 - Independent Study** *Units: 1-4*

Students may also enroll in 4000 level courses to count towards the degree but must first get permission from their academic advisor.

Culminating Experience

All students will meet with their faculty advisors to determine which of the Culminating Experience options best meets their goals. Specific requirements for the Culminating Experience Project are described in the Graduate Handbook.

Choose one:

- **KIN 6899 - Project** *Units: 2-5*
- **KIN 6909 - Departmental Thesis** *Units: 2-5*
- **KIN 6910 - University Thesis** *Units: 2-6*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Kinesiology Minor

Department & Faculty Information

The minor in Kinesiology serves students who wish to acquire knowledge of Kinesiology as a secondary academic focus. It also enables students who have a degree in another field to meet the prerequisite coursework requirements for the Master of Science degree in Kinesiology.

Minor Requirements (35 units)

The minor in Kinesiology consists of 35 units.

1. Lower Division Prerequisite (5 units)

- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*

2. Upper Division Core (9 units)

- KIN 3300 - Critical Inquiry in Kinesiology *Units: 5*
- KIN 3305 - Structural Kinesiology *Units: 4*

3. Upper Division Electives (18 units)

Complete two of the following:

- KIN 3310 - Biomechanics *Units: 5*
- KIN 3320 - Exercise Physiology *Units: 5*
- KIN 3330 - Motor Learning and Control *Units: 5*
- KIN 3350 - Sport and Exercise Psychology *Units: 5*

Complete two of the following:

- KIN 3340 - Motor Development *Units: 4*
- KIN 3701 - History of Physical Activity *Units: 4*
- KIN 3740 - Philosophical Foundations of Kinesiology *Units: 4*
- KIN 3750 - Sport in Contemporary Society *Units: 4*

4. Performance Requirements (3 units)

Complete at least one proficiency in at least three of the designated categories: aquatics, team sports, individual or dual sports, combatives, and fitness activities.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Management

The Department Office is located on the 4th floor of the VBT building, Room 440.

Hours Open: 9:00AM to 6:00PM Monday through Friday.

Dept. Phone: (510) 885 - 4175

Faculty

Professors Emeriti

Bijan Mashaw, Ph.D. Clemson University

Kenneth Pefkaros, Ph.D. University of Delaware

Associate Professor Emerita

Sharon Green, Ph.D. University of California, Berkeley

Professors

Jed DeVaro, Ph.D. Stanford University

Hongwei Du, Ph.D. Florida Institute of Technology

Vishwanath Hegde (Interim Chair), Ph.D. University of Pittsburgh

Xinjian Lu, Ph.D. University of Waterloo, Canada

Zinovy Radovitsky, Ph.D. Scientific Research Institute of Labor (Moscow)

Asha Rao, Ph.D. Temple University

Glen Taylor, Ph.D. York University (Canada)

Gregory Theyel, Ph.D. Clark University

Donna L. Wiley, Ph.D. University of Tennessee at Knoxville

Associate Professors

Ekin Alakent, Ph.D. University of Texas at Dallas

Alan P. Goldberg, Ph.D. University of Massachusetts

Yi Jiang, Ph.D. Ohio State University

Daniel E. Martin, Ph.D. Howard University

H. Steven Peng, Ph.D. York University (Canada)

Surendra Sarnikar, Ph.D. University of Arizona

T.T. (Rajan) Selvarajan, Ph.D. Arizona State University

Chongqi Wu, Ph.D. University of Illinois at Urbana-Champaign

Jiming Wu, Ph.D. University of Kentucky

Assistant Professors

Ken Chung, Ph.D. Rutgers University

Izzet Darendeli, Ph.D. Temple University

Mee Sook Kim, Ph.D. Rutgers University

Kaumudi Misra, Ph.D. Michigan State University

Balaraman Rajan, Ph.D. Simon School of Business, University of Rochester

Stephanie Seitz, Ph.D. State University of New York at Buffalo

Lan Wang, Ph.D. University of Florida, Gainesville

Department Statement:

Tough global competition requires companies to be extremely responsive to the needs and expectations of customers. In addition, many companies today are in a period of rapid changes brought about by technological breakthroughs, business globalization, and extended supply chains. In such a time, the role of the manager and the management professional in facing these challenges and maintaining a competitive edge becomes even more important. Our Management options provide students with an exciting and diverse education in various areas of management including human resource management and organizational behavior, operations and supply chain management, strategy and international business, and information technology management. Past and present employers of our Management students include almost all major firms, and numerous small and mid-size companies in the Bay Area.

Advising

Graduate Program

Bachelor of Science

Business Administration, General Management Option, B.S.

Department & Faculty Information

Business Administration (B.S.) 180 units

Program Description

The College of Business and Economics is committed to providing a broad and flexible professional education. The program offers students the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers. Recognizing the importance of ethics in the business community, business ethics is an important component in three of our required core classes.

The Business Administration major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization (option) corresponding to their desired career path. Each option allows students flexibility to customize their program by choosing option elective courses. The program is designed to encourage students to actively participate in shaping their program to fit their individual needs.

The undergraduate and the graduate programs in Business Administration are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Undergraduate Student Success & Service Center

CBE's Undergraduate Student Success & Service Center (USSSC) provides services that support and promote student success. For more information and advising, contact the USSSC in VBT 129, call (510) 885-3323 or email cbe_ssc@csueastbay.edu

Student Learning Outcomes

Students graduating with a B.S. in Business Administration from Cal State East Bay will be able to:

1. Recognize and recall foundation knowledge relevant to business management.
2. Integrate and think critically across functional areas to solve business problems.
3. Understand and apply quantitative methods and tools in evaluating business problems.
4. Apply technology to analyze business problems.
5. Apply effective oral communication skills.
6. Apply effective written communication skills.
7. Apply effective team working skills.
8. Understand ethical issues and derive solutions for ethical problems.

CBE Sample Programs

In order to ensure that prerequisite courses are taken in the proper sequence, contact the CBE Student Service Center at www.csueastbay.edu/cbe/students/usssc. This site provides information, advising, online forms, sample programs and curriculum planning flow charts for each option in the business administration major.

Major Requirements (B.S.) 97-105 units

Expiration of Courses

Upper division major/option requirement courses will expire ten years after completion of the quarter in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

The B.S. degree requires a total of 180 units. The Business Administration major consists of 97-105 units. The Business Administration major requires three sets of courses:

1. (I) lower division core courses with a grade of "C" or better for each course,
2. (II) upper division core courses, and
3. (III) courses to fulfill option requirements.
 - The core major consists of 73-77 units;
 - the Accounting Option consists of 28 units;
 - the Business Economics Option consists of 24 units;
 - the Entrepreneurship Option consists of 24 units;
 - the Finance Option consists of 24 units;
 - the General Management Option consists of 24 units;
 - the Human Resources Management Option consists of 24 units;
 - the Information Technology Management Option consists of 24 units;
 - the Marketing Management Option consists of 24 units;
 - the Operations and Supply Chain Management Option consists of 24 units.
 - GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
 - *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Prerequisite Courses

Students must have completed the prerequisites listed in the **course descriptions** for any course they use to satisfy the following requirements. Two key MATH prerequisites are listed here, their units are not included in the Major's total units. Check all **course descriptions** to be sure all prerequisites are met.

- MATH 1130 - College Algebra *Units: 4*
- MATH 1300 - Trigonometry and Analytic Geometry *Units: 4*
- **Digital Proficiency** can be fulfilled by completing ITM 1270 (offered below) **or** in one of the following ways: 1) Pass the Digital Proficiency test administered quarterly by the Department of Management, College of Business and Economics. Contact CBE Undergraduate Student Success & Service Center for details regarding the test or 2) Receive a total scaled score of 50 or higher on the "Information Systems and Computer Applications" test administered by College Board's College-Level Examination Program (CLEP). Note that the total scaled scores fall between 20 and 80. Your total scaled score must be at least 50, which does not mean 50%. Browse http://www.collegeboard.com/student/testing/clep/ex_isca.html for all details regarding the "Information Systems" test.

Lower Division Core (29-33 units)

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- ACCT 2253 - Introduction to Managerial Accounting *Units: 4*
- ACCT 2701 - Legal Environment of Business *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*
- ITM 1270 - Fundamentals of Information Systems and Applications *Units: 4*
- MATH 1810 - Mathematics for Business and Social Sciences *Units: 4* *Note: students who plan to pursue one of the more quantitative options or a graduate program are encouraged to enroll in MATH 1304 Calculus I, in place of MATH 1810.*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
or STAT 2010 Elements of Statistics for Business and Economics

Upper Division Core (44 units)

All lower division core requirements must be completed prior to enrollment in upper division courses. *Note: Neither ECON 3107 nor MGMT 4670 can be used as an elective for any Business Administration options. Students who choose the Accounting option are strongly encouraged to take ACCT 4911 Accounting Ethics that counts towards the requirement of 4 quarter units of accounting ethics on the Ethics Study for California CPA (Certified Public Accountant) licensure.*

- ECON 3107 - Global Economic Analysis *Units: 4*
or MGMT 4670 Multinational Business
- ECON 3551 - Managerial Economics and Business Strategy *Units: 4*
- FIN 3300 - Financial Management *Units: 4*
- ITM 3060 - Information Technology Management *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*
- MGMT 3560 - Business and Professional Ethics *Units: 4*
or cross-listed: PHIL 3560
- MGMT 3614 - Organizational Behavior *Units: 4*

- MGMT 3620 - Operations Management *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*
or ACCT 4911 Accounting Ethics
- MGMT 4650 - Seminar in Strategic Business Management *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*

Option Requirements

A Business Administration B.S degree requires that students choose one of the following options. A student cannot have both an option and a minor in the same area.

- Business Administration, Accounting Option, B.S.
- Business Administration, Business Economics Option, B.S.
- Business Administration, Entrepreneurship Option, B.S.
- Business Administration, Finance Option, B.S.
- Business Administration, General Management Option, B.S.
- Business Administration, Human Resources Management Option, B.S.
- Business Administration, Information Technology Management (ITM) Option, B.S.
- Business Administration, Marketing Management Option, B.S.
- Business Administration, Operations and Supply Chain Management (OSCM) Option, B.S.

General Management Option (24 units)

The General Management option allows breadth of study in business fields. Students can choose six courses (24 units) of upper division option elective courses offered by the College of Business and Economics (excluding ECON 3000, ECON 3001, ECON 3107, MGMT 4670, MKTG 3495) that meet their needs, interests, and career goals.

Option Requirements

Students must choose six courses (24 units) from at least three different subject areas (based on course prefixes), but no more than three courses (12 units) may be taken from any one subject area. **Note:** No more than 4 units used to fulfill other requirements (e.g., for general education, minors, or other BSBA options) can be counted toward the General Management option.

Subject Areas

Listed below are the subject areas (and course prefixes) offered by the College of Business and Economics:

- Accounting (ACCT)
- Economics (ECON)
- Entrepreneurship (ENTR)
- Finance (FIN)
- Information Technology Management (ITM)
- Management (MGMT)
- Marketing (MKTG)

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Business Administration, Human Resources Management Option, B.S.

Department & Faculty Information

Business Administration (B.S.) 180 units

Program Description

The College of Business and Economics is committed to providing a broad and flexible professional education. The program offers students the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers. Recognizing the importance of ethics in the business community, business ethics is an important component in three of our required core classes.

The Business Administration major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization (option) corresponding to their desired career path. Each option allows students flexibility to customize their program by choosing option elective courses. The program is designed to encourage students to actively participate in shaping their program to fit their individual needs.

The undergraduate and the graduate programs in Business Administration are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

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Student Learning Outcomes

Students graduating with a B.S. in Business Administration from Cal State East Bay will be able to:

1. Recognize and recall foundation knowledge relevant to business management.
2. Integrate and think critically across functional areas to solve business problems.
3. Understand and apply quantitative methods and tools in evaluating business problems.
4. Apply technology to analyze business problems.

5. Apply effective oral communication skills.
6. Apply effective written communication skills.
7. Apply effective team working skills.
8. Understand ethical issues and derive solutions for ethical problems.

CBE Sample Programs

In order to ensure that prerequisite courses are taken in the proper sequence, contact the CBE Student Service Center at www.csueastbay.edu/cbe/students/usssc. This site provides information, advising, online forms, sample programs and curriculum planning flow charts for each option in the business administration major.

Major Requirements (B.S.) 97-105 units

Expiration of Courses

Upper division major/option requirement courses will expire ten years after completion of the quarter in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

The B.S. degree requires a total of 180 units. The Business Administration major consists of 97-105 units. The Business Administration major requires three sets of courses:

1. (I) lower division core courses with a grade of "C" or better for each course,
2. (II) upper division core courses, and
3. (III) courses to fulfill option requirements.
 - The core major consists of 73-77 units;
 - the Accounting Option consists of 28 units;
 - the Business Economics Option consists of 24 units;
 - the Entrepreneurship Option consists of 24 units;
 - the Finance Option consists of 24 units;
 - the General Management Option consists of 24 units;
 - the Human Resources Management Option consists of 24 units;
 - the Information Technology Management Option consists of 24 units;
 - the Marketing Management Option consists of 24 units;
 - the Operations and Supply Chain Management Option consists of 24 units.
 - GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
 - *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Prerequisite Courses

Students must have completed the prerequisites listed in the **course descriptions** for any course they use to satisfy the following requirements. Two key MATH prerequisites are listed here, their units are not included in the Major's total units. Check all **course descriptions** to be sure all prerequisites are met.

- MATH 1130 - College Algebra *Units: 4*
- MATH 1300 - Trigonometry and Analytic Geometry *Units: 4*
- **Digital Proficiency** can be fulfilled by completing ITM 1270 (offered below) **or** in one of the following ways: 1) Pass the Digital Proficiency test administered quarterly by the Department of Management, College of Business and Economics. Contact CBE Undergraduate Student Success & Service Center for details regarding the test or 2) Receive a total scaled score of 50 or higher on the "Information Systems and Computer Applications" test administered by College Board's College-Level Examination Program (CLEP). Note that the total scaled scores fall between 20 and 80. Your total scaled score must be at least 50, which does not mean 50%. Browse http://www.collegeboard.com/student/testing/clep/ex_isca.html for all details regarding the "Information Systems" test.

Lower Division Core (29-33 units)

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- ACCT 2253 - Introduction to Managerial Accounting *Units: 4*
- ACCT 2701 - Legal Environment of Business *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*
- ITM 1270 - Fundamentals of Information Systems and Applications *Units: 4*
- MATH 1810 - Mathematics for Business and Social Sciences *Units: 4* *Note: students who plan to pursue one of the more quantitative options or a graduate program are encouraged to enroll in MATH 1304 Calculus I, in place of MATH 1810.*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
or STAT 2010 Elements of Statistics for Business and Economics

Upper Division Core (44 units)

All lower division core requirements must be completed prior to enrollment in upper division courses. *Note: Neither ECON 3107 nor MGMT 4670 can be used as an elective for any Business Administration options. Students who choose the Accounting option are strongly encouraged to take ACCT 4911 Accounting Ethics that counts towards the requirement of 4 quarter units of accounting ethics on the Ethics Study for California CPA (Certified Public Accountant) licensure.*

- ECON 3107 - Global Economic Analysis *Units: 4*
or MGMT 4670 Multinational Business
- ECON 3551 - Managerial Economics and Business Strategy *Units: 4*
- FIN 3300 - Financial Management *Units: 4*
- ITM 3060 - Information Technology Management *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*
- MGMT 3560 - Business and Professional Ethics *Units: 4*
or cross-listed: PHIL 3560
- MGMT 3614 - Organizational Behavior *Units: 4*
- MGMT 3620 - Operations Management *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*

or ACCT 4911 Accounting Ethics

- MGMT 4650 - Seminar in Strategic Business Management *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*

Option Requirements

A Business Administration B.S degree requires that students choose one of the following options. A student cannot have both an option and a minor in the same area.

- Business Administration, Accounting Option, B.S.
- Business Administration, Business Economics Option, B.S.
- Business Administration, Entrepreneurship Option, B.S.
- Business Administration, Finance Option, B.S.
- Business Administration, General Management Option, B.S.
- Business Administration, Human Resources Management Option, B.S.
- Business Administration, Information Technology Management (ITM) Option, B.S.
- Business Administration, Marketing Management Option, B.S.
- Business Administration, Operations and Supply Chain Management (OSCM) Option, B.S.

Human Resources Management Option (24 units)

The Human Resources Management option concentrates on the management of people in the workplace. It prepares students for careers in human resources management and labor relations in business, government, and labor organizations. Those with a strong interest in human behavior will find this to be an appropriate area of study. Coursework is concerned with management of human resources, including selection, training, evaluation, and compensation of employees.

Required Option Courses:

One course (4 units) required:

- MGMT 3610 - Strategic Human Resources Management *Units: 4*

Option Elective Courses:

Choice of five courses (20 units) from the following list of Management courses:

- MGMT 3612 - Seminar in Human Resources Management *Units: 4*
- MGMT 3616 - Human Resources Assessment and Measurement *Units: 4*
- MGMT 3680 - Employee Relations and Employment Law *Units: 4*
- MGMT 4520 - Negotiation and Conflict Resolution *Units: 4*
- MGMT 4615 - Compensation and Reward Systems *Units: 4*
- MGMT 4618 - Human Resources Training and Development *Units: 4*
- MGMT 4675 - International Human Resources Management *Units: 4*

Recommended Courses:

Students considering this option are strongly advised to take the following courses, which may also satisfy lower division GE requirements.

- MGMT 3600 - Theories of Management *Units: 4*
- PSYC 1000 - General Psychology *Units: 5*

Course Descriptions

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Other Undergraduate Degree Requirements

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Business Administration, Information Technology Management (ITM) Option, B.S.

Department & Faculty Information

Business Administration (B.S.) 180 units

Program Description

The College of Business and Economics is committed to providing a broad and flexible professional education. The program offers students the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers. Recognizing the importance of ethics in the business community, business ethics is an important component in three of our required core classes.

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Student Learning Outcomes

Students graduating with a B.S. in Business Administration from Cal State East Bay will be able to:

1. Recognize and recall foundation knowledge relevant to business management.
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Major Requirements (B.S.) 97-105 units

Expiration of Courses

Upper division major/option requirement courses will expire ten years after completion of the quarter in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

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Upper Division Core (44 units)

All lower division core requirements must be completed prior to enrollment in upper division courses. *Note: Neither ECON 3107 nor MGMT 4670 can be used as an elective for any Business Administration options. Students who choose the Accounting option are strongly encouraged to take ACCT 4911 Accounting Ethics that counts towards the requirement of 4 quarter units of accounting ethics on the Ethics Study for California CPA (Certified Public Accountant) licensure.*

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- Business Administration, Operations and Supply Chain Management (OSCM) Option, B.S.

Information Technology Management (ITM) Option (24 units)

This option prepares the graduate for management positions in the IT (information technology) industry. With the emergence of technology such as the internet, ERP systems and wireless communication, IT applications are now a fundamental and organic component of every business discipline. This option gives you a comprehensive overview of these applications in different functional areas of an organization such as accounting/finance, marketing, manufacturing, distribution and human resource management. As a graduate of this option you would have a solid understanding of IT applications in different areas of business, how they embed within their respective business processes and add value to them.

Required Option Courses:

Six courses (24 units) required:

- ITM 4271 - Database Management and Applications *Units: 4*
- ITM 4272 - Information Technology and Telecommunication Systems *Units: 4*
- ITM 4273 - Business Intelligence Systems *Units: 4*
- ITM 4277 - Information Systems Development and Management *Units: 4*
- ITM 4278 - E-Business Systems Development *Units: 4*
- MGMT 3110 - Project Management *Units: 4*

Course Descriptions

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Upper Division Core (44 units)

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- MGMT 4650 - Seminar in Strategic Business Management *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*

Option Requirements

A Business Administration B.S degree requires that students choose one of the following options. A student cannot have both an option and a minor in the same area.

- Business Administration, Accounting Option, B.S.
- Business Administration, Business Economics Option, B.S.
- Business Administration, Entrepreneurship Option, B.S.
- Business Administration, Finance Option, B.S.
- Business Administration, General Management Option, B.S.
- Business Administration, Human Resources Management Option, B.S.
- Business Administration, Information Technology Management (ITM) Option, B.S.
- Business Administration, Marketing Management Option, B.S.
- Business Administration, Operations and Supply Chain Management (OSCM) Option, B.S.

Operations and Supply Chain Management Option (24 units)

This option is designed to prepare students to manage all the aspects of a firm's operations and supply chain functions in order to increase its efficiency and effectiveness, improve quality and eliminate waste of resources. This option covers purchasing and management of the material resources in the supply chain process and distribution network, production and operations management within the firm, project management, service operations, and quality management.

Required Option Courses:

Two courses (8 units) required:

- MGMT 3645 - Global Supply Chain Management *Units: 4*
- MGMT 4640 - Enterprise Resource Management *Units: 4*

Option Elective Courses:

Choice of four courses (16 units) from the following Management courses:

- MGMT 3110 - Project Management *Units: 4*
- MGMT 3115 - Supply Chain Data Analytics *Units: 4*
- MGMT 3624 - Supply Management and E-Procurement *Units: 4*
- MGMT 3626 - Management for Quality Improvement *Units: 4*
- MGMT 4625 - Service Operations Management *Units: 4*
- MGMT 4660 - Seminar in Operations and Supply Chain Management *Units: 4*

Course Descriptions

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Master of Business Administration

Business Administration, Human Resources and Organizational Behavior Option, M.B.A.

Department & Faculty Information

CBE Graduate Programs, M.A., M.B.A., M.S.

Description of Programs

The mission of the College of Business and Economics is to prepare students to make ethical choices and succeed in a dynamic business environment shaped by the challenges of a competitive global economy, emerging technologies, and diverse stakeholders. All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees (click on each link for further information):

- **Master of Arts in Economics, M.A.**
- **Master of Business Administration, M.B.A.** (to complete the MBA degree, students select one of the individual MBA options listed under Core Coursework below)
- **Master of Science in Accountancy, M.S.**
- **Master of Science in Business Analytics, M.S.**

Transfer of Courses

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Graduate Courses

Restricted to "Classified" and "Conditionally Classified" Graduate Students.

Classified Graduate Standing

A student who has been admitted to the M.A. program by meeting the requirements established in item 1 above; has fulfilled all prerequisite coursework and other requirements such as the University Writing

Skills Requirement (UWSR); and has a strong background in economics may begin as a "Classified Graduate" student. Students admitted into the program but lacking such background will be designated as "Conditionally Classified Graduate" students until deficiencies are made up and they are recommended for "Classified Graduate" standing by the department. The student must have satisfied the University Writing Skills Requirement (UWSR) to become a "Classified Graduate" student. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Conditionally Classified Graduate Standing

A student who has been admitted to a graduate degree program but who has not satisfied all prerequisite coursework or other requirements such as the University Writing Skills Requirement is a "Conditionally Classified Graduate" student. A student may be admitted to a graduate degree program as a "Conditionally Classified" graduate student upon:

1. submission of a written application, with required supporting documents, to the Admissions Office declaring an intent to pursue the M.A. degree in Economics;
2. acceptance by the department; and
3. completion of other appropriate requirements as specified in the Admission/Graduate chapter in this catalog.

Course prerequisites are enforced but may be waived per approval of the director of Graduate Programs.

Business Administration (M.B.A.) Program Information

Graduate Faculty Advisors for M.B.A. Options

- M.B.A./Entrepreneurship: Brian McKenzie
- M.B.A./Finance: Fung-Shine Pan
- M.B.A./Human Resources and Organizational Behavior: Asha Rao
- M.B.A./Information Technology Management: Hongwei Du
- M.B.A./Marketing Management: Lan Wu
- M.B.A./Operations and Supply Chain Management: Zinovy Radovitsky
- M.B.A. Strategy and International Business: Gregory Theyel, Yi Jiang
- M.B.A./Global Innovators: Yi Jiang, Glen Taylor

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of

- past academic performance as reflected in undergraduate grade point average and subsequent coursework; and
- results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For the MBA with Options last admitted students profile, please visit: www20.csueastbay.edu/cbe/mba-options/Student-Profile.html

- GRE score, if provided, is accepted in place of GMAT. GMAT may be waived for applicants with five years or more work experience. Applicants' eligibility for a GMAT waiver is discussed during their personal interview, in which their professional achievements and academic background are addressed.

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Students are also expected to have completed M.B.A. proficiency requirements in introductory mathematics and statistics with a grade of "C" or better and within 7 years of starting in the program. To satisfy the mathematics proficiency, students must complete the equivalent coursework in intermediate algebra, MATH 1130 or an equivalent course. The statistics requirement may be met by a course in statistics that is equivalent to STAT 1000 or STAT 2010.

Requirements for Graduation

To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog) and have completed 52-64 quarter units meeting the following criteria:

- All have a course grade of "C" or better.
- Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
- Have no more than 16 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Postbaccalaureate" status.
- All units earned within the five years immediately preceding the completion of the requirements for the degree.
- Have completed a satisfactory program of study, defined below.

M.B.A. Coursework 52-64 units

Fundamental Coursework (0-12 units)

Fundamental coursework must be completed before enrolling in any M.B.A. core course, except MGMT 6120 and MKTG 6120. Fundamental coursework can be waived by passing an exam on a course by course basis. Exams are offered once per quarter. There is a fee of \$25 for each exam. Please see the M.B.A. website <http://www.mba.csueastbay.edu> or contact the CBE Graduate Programs Office (VBT 430, phone 510.885.2419) for dates and registration information.

- ACCT 6015 - Financial Accounting *Units: 4*
- ITM 6015 - Information Systems Development and Management *Units: 4*

- **MGMT 6015 - Data Analysis and Decision Modeling for Managers** *Units: 4*

Core Coursework

Nine courses (36 units) required from the following: **Note:** MGMT 6120 and MKTG 6120 should be taken before other core courses. These two courses only require proficiencies as prerequisites. All remaining core courses require both proficiencies and fundamental coursework.

- **MGMT 6120 - Globalization, Innovation and Sustainability** *Units: 4*
- **MKTG 6120 - Managerial Communication** *Units: 4*
- **ACCT 6215 - Managerial Accounting** *Units: 4*
- **ECON 6215 - Economics for Managers in a Global Economy** *Units: 4*
- **FIN 6215 - Corporate Financial Management** *Units: 4*
- **MGMT 6215 - Business, Government and Society** *Units: 4*
- **MGMT 6220 - Operations and Supply Chain Management** *Units: 4*
- **MGMT 6225 - Executive Leadership** *Units: 4*
- **MKTG 6215 - Marketing Management** *Units: 4*

Core Capstone

Choice of two courses (4 units) from the following:

- **ENTR 6800 - Entrepreneurship Practicum** *Units: 4*
- **MGMT 6800 - Seminar in Strategic Management** *Units: 4*

Option Requirements:

A Master of Business Administration (M.B.A.) degree can be completed by choosing 12 units of electives or by choosing an option. The individual links will provide further information below.

- Business Administration, M.B.A.
- Business Administration, Entrepreneurship Option, M.B.A.
- Business Administration, Finance Option, M.B.A.
- Business Administration, Global Innovators Option, M.B.A.
- Business Administration, Human Resources and Organizational Behavior Option, M.B.A.
- Business Administration, Information Technology Management Option, M.B.A.
- Business Administration, Marketing Management Option, M.B.A.
- Business Administration, Operations and Supply Chain Management Option, M.B.A.
- Business Administration, Strategy and International Business Option, M.B.A.

Human Resources and Organizational Behavior Option (12 units)

Required Option Courses:

One course (4 units) from the following:

- **MGMT 6612 - Strategic Human Resources: Frameworks for General Managers**
Units: 4

Option Elective Courses:

Choice of two courses (8 units) from the following (*we highly recommend that 3 courses be taken*):

- **MGMT 6520 - Negotiation for Managers and Entrepreneurs** *Units: 4*
- **MGMT 6560 - High Performance Management** *Units: 4*
- **MGMT 6613 - Topics in Human Resource Management** *Units: 4*
- **MGMT 6615 - Strategic Compensation, Incentives, and Productivity** *Units: 4*
- **MGMT 6618 - Selecting, Maintaining and Retaining Employees** *Units: 4*
- **MGMT 6622 - Human Resources Analytics** *Units: 4*
- **MGMT 6675 - International Human Resource Management** *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate and Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation which are described throughout this catalog. These requirements include the 32-unit residence requirement, the five-year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website or call 510.885.3661.

Business Administration, Information Technology Management Option, M.B.A.

Department & Faculty Information

CBE Graduate Programs, M.A., M.B.A., M.S.

Description of Programs

The mission of the College of Business and Economics is to prepare students to make ethical choices and succeed in a dynamic business environment shaped by the challenges of a competitive global economy, emerging technologies, and diverse stakeholders. All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees (click on each link for further information):

- **Master of Arts in Economics, M.A.**
- **Master of Business Administration, M.B.A.** (to complete the MBA degree, students select one of the individual MBA options listed under Core Coursework below)

- **Master of Science in Accountancy, M.S.**
- **Master of Science in Business Analytics, M.S.**

Transfer of Courses

Upper division prerequisite and foundation and graduate courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Graduate Courses

Restricted to "Classified" and "Conditionally Classified" Graduate Students.

Classified Graduate Standing

A student who has been admitted to the M.A. program by meeting the requirements established in item 1 above; has fulfilled all prerequisite coursework and other requirements such as the University Writing Skills Requirement (UWSR); and has a strong background in economics may begin as a "Classified Graduate" student. Students admitted into the program but lacking such background will be designated as "Conditionally Classified Graduate" students until deficiencies are made up and they are recommended for "Classified Graduate" standing by the department. The student must have satisfied the University Writing Skills Requirement (UWSR) to become a "Classified Graduate" student. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Conditionally Classified Graduate Standing

A student who has been admitted to a graduate degree program but who has not satisfied all prerequisite coursework or other requirements such as the University Writing Skills Requirement is a "Conditionally Classified Graduate" student. A student may be admitted to a graduate degree program as a "Conditionally Classified" graduate student upon:

1. submission of a written application, with required supporting documents, to the Admissions Office declaring an intent to pursue the M.A. degree in Economics;
2. acceptance by the department; and
3. completion of other appropriate requirements as specified in the Admission/Graduate chapter in this catalog.

Course prerequisites are enforced but may be waived per approval of the director of Graduate Programs.

Business Administration (M.B.A.) Program Information

Graduate Faculty Advisors for M.B.A. Options

- M.B.A./Entrepreneurship: Brian McKenzie
- M.B.A./Finance: Fung-Shine Pan
- M.B.A./Human Resources and Organizational Behavior: Asha Rao
- M.B.A./Information Technology Management: Hongwei Du
- M.B.A./Marketing Management: Lan Wu
- M.B.A./Operations and Supply Chain Management: Zinovy Radovilsky

- M.B.A. Strategy and International Business: Gregory Theyel, Yi Jiang
- M.B.A./Global Innovators: Yi Jiang, Glen Taylor

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of

- past academic performance as reflected in undergraduate grade point average and subsequent coursework; and
- results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For the MBA with Options last admitted students profile, please visit: www20.csueastbay.edu/cbe/mba-options/Student-Profile.html
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Proficiencies

All Conditionally Classified M.B.A. students must fulfill the University Writing Skills Requirement (UWSR) and M.B.A. program proficiencies. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office, Library, Room LI 3165A, phone 510-885-3661. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first quarter in the program.

Students are also expected to have completed M.B.A. proficiency requirements in introductory mathematics and statistics with a grade of "C" or better and within 7 years of starting in the program. To satisfy the mathematics proficiency, students must complete the equivalent coursework in intermediate algebra, MATH 1130 or an equivalent course. The statistics requirement may be met by a course in statistics that is equivalent to STAT 1000 or STAT 2010.

Requirements for Graduation

To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog) and have completed 52-64 quarter units meeting the following criteria:

- All have a course grade of "C" or better.
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- All units earned within the five years immediately preceding the completion of the requirements for the degree.

- Have completed a satisfactory program of study, defined below.

M.B.A. Coursework 52-64 units

Fundamental Coursework (0-12 units)

Fundamental coursework must be completed before enrolling in any M.B.A. core course, except MGMT 6120 and MKTG 6120. Fundamental coursework can be waived by passing an exam on a course by course basis. Exams are offered once per quarter. There is a fee of \$25 for each exam. Please see the M.B.A. website <http://www.mba.csueastbay.edu> or contact the CBE Graduate Programs Office (VBT 430, phone 510.885.2419) for dates and registration information.

- ACCT 6015 - Financial Accounting *Units: 4*
- ITM 6015 - Information Systems Development and Management *Units: 4*
- MGMT 6015 - Data Analysis and Decision Modeling for Managers *Units: 4*

Core Coursework

Nine courses (36 units) required from the following: **Note:** MGMT 6120 and MKTG 6120 should be taken before other core courses. These two courses only require proficiencies as prerequisites. All remaining core courses require both proficiencies and fundamental coursework.

- MGMT 6120 - Globalization, Innovation and Sustainability *Units: 4*
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- MGMT 6215 - Business, Government and Society *Units: 4*
- MGMT 6220 - Operations and Supply Chain Management *Units: 4*
- MGMT 6225 - Executive Leadership *Units: 4*
- MKTG 6215 - Marketing Management *Units: 4*

Core Capstone

Choice of two courses (4 units) from the following:

- ENTR 6800 - Entrepreneurship Practicum *Units: 4*
- MGMT 6800 - Seminar in Strategic Management *Units: 4*

Option Requirements:

A Master of Business Administration (M.B.A.) degree can be completed by choosing 12 units of electives or by choosing an option. The individual links will provide further information below.

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- Business Administration, Finance Option, M.B.A.

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- Business Administration, Marketing Management Option, M.B.A.
- Business Administration, Operations and Supply Chain Management Option, M.B.A.
- Business Administration, Strategy and International Business Option, M.B.A.

Information Technology Management Option (12 units)

Required Option Courses:

Two courses (8 units) required:

- ITM 6271 - Database Management and Applications *Units: 4*
- ITM 6273 - Big Data Technologies and Applications *Units: 4*

Option Elective Courses:

Choice of one course (4 units) from the following:

- ITM 6130 - Enterprise Management Systems *Units: 4*
- MGMT 6155 - Applied Project Management *Units: 4*

Course Descriptions

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Business Administration, Operations and Supply Chain Management Option, M.B.A.

Department & Faculty Information

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M.B.A. Coursework 52-64 units

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- MGMT 6225 - Executive Leadership *Units: 4*
- MKTG 6215 - Marketing Management *Units: 4*

Core Capstone

Choice of two courses (4 units) from the following:

- ENTR 6800 - Entrepreneurship Practicum *Units: 4*
- MGMT 6800 - Seminar in Strategic Management *Units: 4*

Option Requirements:

A Master of Business Administration (M.B.A.) degree can be completed by choosing 12 units of electives or by choosing an option. The individual links will provide further information below.

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- Business Administration, Information Technology Management Option, M.B.A.
- Business Administration, Marketing Management Option, M.B.A.
- Business Administration, Operations and Supply Chain Management Option, M.B.A.
- Business Administration, Strategy and International Business Option, M.B.A.

Operations and Supply Chain Management Option (12 units)

Select three courses from the following:

- MGMT 6115 - E-Commerce Enterprise Management *Units: 4*
- MGMT 6125 - Purchasing Management and Strategic Sourcing *Units: 4*
- MGMT 6130 - Enterprise Planning and Control *Units: 4*
- MGMT 6141 - Service Operations Management *Units: 4*
- MGMT 6145 - Logistics Management *Units: 4*
- MGMT 6150 - Global Supply Chain Management *Units: 4*
- MGMT 6155 - Applied Project Management *Units: 4*
- MGMT 6285 - Data Mining *Units: 4*
or crosslisted ITM 6285

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate and Post-Baccalaureate Degree Requirements

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Master of Science

Business Analytics, M.S.

Department & Faculty Information

CBE Graduate Programs, M.A., M.B.A., M.S.

Description of Programs

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- **Master of Science in Accountancy, M.S.**
- **Master of Science in Business Analytics, M.S.**

Transfer of Courses

Upper division prerequisite and foundation and graduate courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Graduate Courses

Restricted to "Classified" and "Conditionally Classified" Graduate Students.

Classified Graduate Standing

A student who has been admitted to the M.A. program by meeting the requirements established in item 1 above; has fulfilled all prerequisite coursework and other requirements such as the University Writing Skills Requirement (UWSR); and has a strong background in economics may begin as a "Classified Graduate" student. Students admitted into the program but lacking such background will be designated as "Conditionally Classified Graduate" students until deficiencies are made up and they are recommended for "Classified Graduate" standing by the department. The student must have satisfied the University Writing Skills Requirement (UWSR) to become a "Classified Graduate" student. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

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A student who has been admitted to a graduate degree program but who has not satisfied all prerequisite coursework or other requirements such as the University Writing Skills Requirement is a "Conditionally Classified Graduate" student. A student may be admitted to a graduate degree program as a "Conditionally Classified" graduate student upon:

1. submission of a written application, with required supporting documents, to the Admissions Office declaring an intent to pursue the M.A. degree in Economics;
2. acceptance by the department; and

3. completion of other appropriate requirements as specified in the Admission/Graduate chapter in this catalog.

Course prerequisites are enforced but may be waived per approval of the director of Graduate Programs.

Business Analytics, (M.S.) Program Information

Program Coordinators

Chongqi Wu and Jiming Wu, Department of Management

The Master of Science in Business Analytics provides students with a balanced and broad set of knowledge and skills in Business Analytics, Business Intelligence, Database Management, and Data Warehousing. This degree offers students a focused specialty in how data analytics and business intelligence are applied in business organizations.

Program Objectives

1. The M.S. Business Analytics will provide hands-on experience and in-depth study of important analytics topics including database management, data warehousing, big data technologies, data mining, business intelligence, and descriptive, predictive and prescriptive analytics along with popular software in data analytics.
2. The M.S. Business Analytics will offer students an opportunity to apply business analytics to various business functions including marketing, finance, human resources, operations and supply chain management, etc.

Program Learning Outcomes

Students graduating with an M.S. Business Analytics from Cal State East Bay will be able to:

1. Design, implement, and manage databases and data warehousing systems
2. Acquire, validate, analyze and represent data and information for generating knowledge-based information systems
3. Apply business intelligence and analytics skills in various areas of business and decision making.

Admission

The M.S. Business Analytics minimum admission requirements include:

- Baccalaureate degree with strong quantitative and computer programming background such as management science, finance, economics, computer science, engineering, basic science, etc. from an accredited college or university.
- Or a baccalaureate degree and at least 5 years of working experience in information technology.
- Past academic performance as reflected in undergraduate grade point average and subsequent coursework, i.e., an undergraduate degree with at least 2.5 Grade Point Average (or equivalent).
- For International students: demonstrated proof of English proficiency, e.g., TOEFL score of 550 (paper-based), 213 (computer-based) or 79 (Internet-based), or IELTS of 6.5 or above.

Proficiencies

- Demonstrated proficiency requirements in mathematics, statistics and programming with a grade of "C" or better and within 7 years of starting in the program, or at least 5 years of working experience in information technology.
- To satisfy the mathematics proficiency, you must have completed equivalent coursework in intermediate algebra. If you have not completed such coursework, you can take MATH 1130 or an equivalent course. The statistics requirement may be met by a course in statistics that is equivalent to STAT 2010 or STAT 1000 . The programming requirement may be met by a course in computer science that is equivalent to CS 1160 .The decision on course equivalency in mathematics, statistics, and programming will be made by the respective Departments.
- All Conditionally Classified M.S. Business Analytics students must fulfill the University Writing Skills Requirement (UWSR) and M.S. Business Analytics program proficiencies. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office, Library, Room LI 3165A, phone 510-885-3661. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first quarter in the program.

Requirements for Graduation

To be eligible for the M.S. Business Analytics you must have been Advanced to Candidacy and have completed 45-53 quarter units meeting the following criteria:

- All have a course grade of "C" or better.
- Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
- Have no more than 13 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Postbaccalaureate" status.
- All units earned within the five years immediately preceding the completion of the requirements for the degree.
- Have completed a satisfactory program of study, defined below.

Coursework 45-53 units

Fundamental Coursework (0-8 units)

Fundamental coursework must be completed before enrolling in any M.S. Business Analytics required courses. Fundamental courses may be waived if a student completed equivalent coursework for one or both fundamental courses, or completed the undergraduate version of these fundamental courses, i.e., ITM 3060 and MGMT 3100, within the last 5 years with a grade of "C" or higher. Fundamental coursework can be also waived by passing an exam. Exams are offered once per quarter. There is a fee of \$25 for each exam. Please see the M.S. Business Analytics website or contact the CBE Graduate Programs Office (VBT 430, phone 510-885-2419) for dates and registration information.

- ITM 6015 - Information Systems Development and Management *Units: 4*
- MGMT 6015 - Data Analysis and Decision Modeling for Managers *Units: 4*

Required Courses (24 units)

Required courses will be taught with modern data analytics programming languages and tools, e.g., SQL, Hadoop, SAS, R, Python, Excel-based add-ins, etc.

- ITM 6271 - Database Management and Applications *Units: 4*
- ITM 6273 - Big Data Technologies and Applications *Units: 4*
- ITM 6280 - Data Warehousing *Units: 4*
- ITM 6285 - Data Mining *Units: 4 or crosslisted MGMT 6285 Units: 4*
- MGMT 6160 - Data Analytics *Units: 4*
- MGMT 6165 - Prescriptive Analytics *Units: 4*

Elective Courses (20 units)

Select five courses from the following:

- ECON 6511 - Advanced Applied Econometrics *Units: 4*
- FIN 6310 - Seminar in Security Analysis and Portfolio Management *Units: 4*
- ITM 6130 - Enterprise Management Systems *Units: 4*
- MGMT 6155 - Applied Project Management *Units: 4*
- MGMT 6622 - Human Resources Analytics *Units: 4*
- MKTG 6401 - Marketing Research *Units: 4*
- STAT 6250 - SAS Programming *Units: 4*
- STAT 6620 - Statistical Learning with R *Units: 4*
- One graduate course, not listed above (numbered 6000 or higher) may be substituted with approval of the graduate coordinator.

Capstone Experience (1 unit)

- ITM 6899 - Project *Units: 1*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Information Technology Management Minor

Department & Faculty Information

Program Information

The minor in Information Technology Management is offered through the Department of Management. Business Administration majors who want to have this minor listed on their transcripts must have at least 18 units in the minor that are not counted in the major requirements.

Minor Requirements (20-24 units)

Prerequisites

Students must have completed the prerequisites listed in the course descriptions for any course they use to satisfy the following requirements. The prerequisites listed below are not exhaustive, check all course descriptions to be sure all prerequisites are met. **Note:** Prerequisite units may not be included in total program units.

- MGMT 3100 Decision Science
- *Digital Proficiency* can be fulfilled by:
 - Completing ITM 1270 (offered below), or
 - Pass the Digital Proficiency test administered quarterly by the Department of Management, College of Business and Economics. Contact CBE Undergraduate Student Success & Service Center for details regarding the test, or
 - Receive a total scaled score of 50 or higher on the "Information Systems and Computer Applications" test administered by College Board's College-Level Examination Program (CLEP). Note that the total scaled scores fall between 20 and 80. Your total scaled score must be at least 50, which does not mean 50%. Browse http://www.collegeboard.com/student/testing/clep/ex_isca.html for all details regarding the "Information Systems" test.

Lower Division Requirement

Digital Proficiency required (0-4 units): See "prerequisites" above.

- ITM 1270 - Fundamentals of Information Systems and Applications *Units: 4*

Upper Division Requirement

One course (4 units) required:

- ITM 3060 - Information Technology Management *Units: 4*

Elective Courses

Choice of four courses (16 units) permitted from the Information Technology Management option in the Business Administration major:

- ITM 4271 - Database Management and Applications *Units: 4*
- ITM 4272 - Information Technology and Telecommunication Systems *Units: 4*

- ITM 4273 - Business Intelligence Systems *Units: 4*
- ITM 4277 - Information Systems Development and Management *Units: 4*
- ITM 4278 - E-Business Systems Development *Units: 4*
- MGMT 3110 - Project Management *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

International Business Minor

Department & Faculty Information

Program Description

The International Business Minor is designed to provide you with a foundation in:

- general business administration;
- a specialty within business in finance, marketing, or personnel administration/industrial relations;
- international business; and
- international studies including languages and cultural and political background.

Coursework required for the minor has been combined into three modules: (A) Business Administration, (B) Specialty/International Business, and (C) International Studies.

Students in Business Administration will have satisfied Module A as part of their Business Administration major and need only Modules B and C (a total of 40-48 units) to complete an International Business Minor.

Students in the College of Letters, Arts, and Social Sciences with a major or minor in the Department of Modern Languages and Literatures, can easily have at least 24 units of Module C satisfied as part of their major or minor program, leaving them with Modules A and B, and possibly 8 units of C (a total of 40-48 units) to complete for an International Business Minor.

Minor Requirements 64-72 units

All three modules must be satisfied. Note that units taken to satisfy the requirements of a minor can be applied to General Education requirements wherever applicable as long as the units are outside the prefixes of the student's major. (Note: ACCT, ENTR, FIN, ITM, MGMT, and MKTG are prefixes in the Business Administration major.)

Prerequisites

Students must have completed the prerequisites listed in the course descriptions for any course they use to satisfy the following requirements. The prerequisites listed below are not exhaustive, check all course descriptions to be sure all prerequisites are met. Note: Prerequisite units may not be included in total program units.

- MGMT 3614 Organizational Behavior
- STAT 1000 Elements of Probability and Statistics
- STAT 2010 Elements of Statistics for Business and Economics
- *Digital Proficiency* can be fulfilled by:
- Completing ITM 1270 (offered below), or
- Pass the Digital Proficiency test administered quarterly by the Department of Management, College of Business and Economics. Contact CBE Undergraduate Student Success & Service Center for details regarding the test, or
- Receive a total scaled score of 50 or higher on the "Information Systems and Computer Applications" test administered by College Board's College-Level Examination Program (CLEP). Note that the total scaled scores fall between 20 and 80. Your total scaled score must be at least 50, which does not mean 50%. Browse http://www.collegeboard.com/student/testing/clep/ex_isca.html for all details regarding the "Information Systems" test.

Business Administration Requirements: (Module A)

Six courses (24 units) required. Please consult the USSSC for further module advising.

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*
- MGMT 3600 - Theories of Management *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*

And choose one course from the following:

- ECON 3107 - Global Economic Analysis *Units: 4*
- MGMT 4670 - Multinational Business *Units: 4*

Specialty/International Business: (Module B)

Complete one (1) of the following specialty areas **plus** the two courses of specialty electives for a total of 16 units. Please consult the USSSC for further module advising.

Finance Specialty Area

Two courses (8 units) required. (*) Business Administration majors selecting the Finance specialty should complete FIN 4310 and FIN 4320 since they will be completing FIN 3300 as part of the upper division Business Administration core requirements.

- FIN 3300 - Financial Management *Units: 4*

Choice of one of the following (*)

- FIN 4310 - Investment Analysis *Units: 4*
- FIN 4320 - Problems in Corporate Finance *Units: 4*

Marketing Specialty Area

Two courses (8 units) required:

- MKTG 3410 - Advertising Management *Units: 4*
- MKTG 3445 - Marketing Research *Units: 4*

Human Resources Management (HRM) Specialty Area

Choice of one group (8 units). (*) Business Administration majors selecting the HRM specialty should complete MGMT 3610 and MGMT 4615.

Group 1

- MGMT 3610 - Strategic Human Resources Management *Units: 4*
- MGMT 4615 - Compensation and Reward Systems *Units: 4 (MGMT 3680 can be substituted for 4615)*

Group 2

- MGMT 3680 - Employee Relations and Employment Law *Units: 4*
- And another upper-division MGMT course covering collective bargaining, labor law, and/or labor relations, with consent of advisor

Specialty Electives

Select two courses (8 units) from the following list, with one (1) of the two courses being in the student's chosen specialty area:

- ECON 3107 - Global Economic Analysis *Units: 4*
- ECON 4705 - International Finance *Units: 4* * a recommended choice for the *Finance* Specialty area.
- FIN 4375 - International Business Finance *Units: 4*
- MGMT 4675 - International Human Resources Management *Units: 4*
- MKTG 4470 - International Marketing *Units: 4*

International Studies: (Module C)

Twenty-four (24) - 32 units required:

All of the courses taken to satisfy items module C II and module C III must have their content reaching primarily beyond the student's native culture and geographic region. A student's choices of language and area studies courses must relate to the same geographic region. Students whose native language is other

than English may choose English as their second language, if their native language is determined by the committee administering the minor to have sufficient significance as a language of commerce. Students using English as their second language may make either U.S./Canada or Great Britain (not both) the focus of their module C III coursework.

Please consult Dr. Norman A. Bowen (Political Science) for Module C advising.

Module C-I

Choice of one course (4 units) from of the following:

- HIST 3550 - The History of U.S. Foreign Relations *Units: 4*
- INTS 3100 - Global Systems *Units: 4*
- POSC 3520 - International Relations *Units: 4*
- SOC 3431 - Global Society *Units: 4*

Module C-II

Intermediate level competency in a modern language including a course in business terminology if available (0-24 units). Competency must be certified by the Cal State East Bay Department of Modern Languages and Literatures. Competency-certified language units based on other than regular classroom transcript coursework or based on courses challenged for CR/NC will not count as part of the minimum 24 units required for Module C.

Module C-III

A minimum of 4 units in area studies (e.g., Latin America, Middle East, Northern Europe, Southeast Asia), with sufficient additional units in C III to bring the total acceptable credit units for Module C to a minimum of 24 units (4-20 units). (Courses for C III must be approved by the assigned International Business Minor advisor.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Marketing

The Department Office is located on the 4th floor of the VBT building, Room 440.

We are open 9:00AM - 6:00PM Monday through Friday.

Dept. Phone: (510) 885 - 3307

Faculty

Professor Emeritus

Norman Smothers, Ph.D. University of California, Berkeley

Professors

Jagdish Agrawal, Ph.D. State University of New York at Buffalo

Stevina Evuleocha, Ph.D. Ohio University

Sweety Law, Ph.D. Ohio State University

C. Joanna Lee (Chair), Ph.D. University of Texas at Austin

Cesar Maloles, Ph.D. City University of New York

Steve Ugbah, Ph.D. Ohio University

Associate Professors

Yi He, Ph.D. University of Hawai'i

Lan Wu, Ph.D. Georgia Institute of Technology

Assistant Professors

Judy Ma, Ph.D. Rensselaer Polytechnic Institute

Joon-Hee Oh, Ph.D. Georgia State University

Mission Statement:

Principal foundations of the Department of Marketing have been and continue to be quality instruction and scholarly activities of the faculty as well as the interaction between and among faculty, students, and the business community. The Department of Marketing fosters community connection and welcomes partnership opportunities that enhance educational experiences of our students.

Advising

Graduate Program

Bachelor of Science

Business Administration, Entrepreneurship Option, B.S.

Department & Faculty Information

Business Administration (B.S.) 180 units

Program Description

The College of Business and Economics is committed to providing a broad and flexible professional education. The program offers students the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers. Recognizing the importance of ethics in the business community, business ethics is an important component in three of our required core classes.

The Business Administration major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization (option) corresponding to their desired career path. Each option allows students flexibility to customize their program by choosing option elective courses. The program is designed to encourage students to actively participate in shaping their program to fit their individual needs.

The undergraduate and the graduate programs in Business Administration are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Undergraduate Student Success & Service Center

CBE's Undergraduate Student Success & Service Center (USSSC) provides services that support and promote student success. For more information and advising, contact the USSSC in VBT 129, call (510) 885-3323 or email cbe_ssc@csueastbay.edu

Student Learning Outcomes

Students graduating with a B.S. in Business Administration from Cal State East Bay will be able to:

1. Recognize and recall foundation knowledge relevant to business management.
2. Integrate and think critically across functional areas to solve business problems.
3. Understand and apply quantitative methods and tools in evaluating business problems.
4. Apply technology to analyze business problems.
5. Apply effective oral communication skills.
6. Apply effective written communication skills.
7. Apply effective team working skills.

8. Understand ethical issues and derive solutions for ethical problems.

CBE Sample Programs

In order to ensure that prerequisite courses are taken in the proper sequence, contact the CBE Student Service Center at www.csueastbay.edu/cbe/students/usssc. This site provides information, advising, online forms, sample programs and curriculum planning flow charts for each option in the business administration major.

Major Requirements (B.S.) 97-105 units

Expiration of Courses

Upper division major/option requirement courses will expire ten years after completion of the quarter in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

The B.S. degree requires a total of 180 units. The Business Administration major consists of 97-105 units. The Business Administration major requires three sets of courses:

1. (I) lower division core courses with a grade of "C" or better for each course,
2. (II) upper division core courses, and
3. (III) courses to fulfill option requirements.
 - The core major consists of 73-77 units;
 - the Accounting Option consists of 28 units;
 - the Business Economics Option consists of 24 units;
 - the Entrepreneurship Option consists of 24 units;
 - the Finance Option consists of 24 units;
 - the General Management Option consists of 24 units;
 - the Human Resources Management Option consists of 24 units;
 - the Information Technology Management Option consists of 24 units;
 - the Marketing Management Option consists of 24 units;
 - the Operations and Supply Chain Management Option consists of 24 units.
 - GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
 - *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Prerequisite Courses

Students must have completed the prerequisites listed in the **course descriptions** for any course they use to satisfy the following requirements. Two key MATH prerequisites are listed here, their units are not included in the Major's total units. Check all **course descriptions** to be sure all prerequisites are met.

- **MATH 1130 - College Algebra** *Units: 4*

- **MATH 1300 - Trigonometry and Analytic Geometry** *Units: 4*
- **Digital Proficiency** can be fulfilled by completing ITM 1270 (offered below) **or** in one of the following ways: 1) Pass the Digital Proficiency test administered quarterly by the Department of Management, College of Business and Economics. Contact CBE Undergraduate Student Success & Service Center for details regarding the test or 2) Receive a total scaled score of 50 or higher on the "Information Systems and Computer Applications" test administered by College Board's College-Level Examination Program (CLEP). Note that the total scaled scores fall between 20 and 80. Your total scaled score must be at least 50, which does not mean 50%. Browse http://www.collegeboard.com/student/testing/clep/ex_isca.html for all details regarding the "Information Systems" test.

Lower Division Core (29-33 units)

- **ACCT 2251 - Introduction to Financial Accounting** *Units: 4*
- **ACCT 2253 - Introduction to Managerial Accounting** *Units: 4*
- **ACCT 2701 - Legal Environment of Business** *Units: 4*
- **ECON 2301 - Principles of Microeconomics** *Units: 4*
- **ECON 2302 - Principles of Macroeconomics** *Units: 4*
- **ITM 1270 - Fundamentals of Information Systems and Applications** *Units: 4*
- **MATH 1810 - Mathematics for Business and Social Sciences** *Units: 4* *Note: students who plan to pursue one of the more quantitative options or a graduate program are encouraged to enroll in MATH 1304 Calculus I, in place of MATH 1810.*
- **STAT 1000 - Elements of Probability and Statistics** *Units: 5*
or STAT 2010 Elements of Statistics for Business and Economics

Upper Division Core (44 units)

All lower division core requirements must be completed prior to enrollment in upper division courses. *Note: Neither ECON 3107 nor MGMT 4670 can be used as an elective for any Business Administration options. Students who choose the Accounting option are strongly encouraged to take ACCT 4911 Accounting Ethics that counts towards the requirement of 4 quarter units of accounting ethics on the Ethics Study for California CPA (Certified Public Accountant) licensure.*

- **ECON 3107 - Global Economic Analysis** *Units: 4*
or MGMT 4670 Multinational Business
- **ECON 3551 - Managerial Economics and Business Strategy** *Units: 4*
- **FIN 3300 - Financial Management** *Units: 4*
- **ITM 3060 - Information Technology Management** *Units: 4*
- **MGMT 3100 - Decision Science** *Units: 4*
- **MGMT 3560 - Business and Professional Ethics** *Units: 4*
or cross-listed: PHIL 3560
- **MGMT 3614 - Organizational Behavior** *Units: 4*
- **MGMT 3620 - Operations Management** *Units: 4*
- **MGMT 4500 - Business, Government, and Society** *Units: 4*
or ACCT 4911 Accounting Ethics
- **MGMT 4650 - Seminar in Strategic Business Management** *Units: 4*
- **MKTG 3401 - Marketing Principles** *Units: 4*

Option Requirements

A Business Administration B.S degree requires that students choose one of the following options. *A student cannot have both an option and a minor in the same area.*

- Business Administration, Accounting Option, B.S.
- Business Administration, Business Economics Option, B.S.
- Business Administration, Entrepreneurship Option, B.S.
- Business Administration, Finance Option, B.S.
- Business Administration, General Management Option, B.S.
- Business Administration, Human Resources Management Option, B.S.
- Business Administration, Information Technology Management (ITM) Option, B.S.
- Business Administration, Marketing Management Option, B.S.
- Business Administration, Operations and Supply Chain Management (OSCM) Option, B.S.

Entrepreneurship Option (24 units)

This option concentrates on the management of existing small and medium size businesses, the procedures for establishing new ventures either as new firms or as subdivisions of existing firms, and the problems confronting new venture managers during the critical start-up period. The option provides an excellent preparation to those who plan to have their own firm, to be employed by small or medium size business firms with high growth potential, or to work in positions within financial institutions, government agencies, management consulting firms, and marketing agencies that deal primarily with the needs and problems of small to medium sized firms.

Required Option Courses:

Six courses (24 units) required:

- ECON 3555 - Economics of Innovation and Intellectual Property *Units: 4*
- ENTR 4485 - Establishing New Enterprises *Units: 4*
- ENTR 4490 - Practicum in Small Business Management *Units: 4*
- FIN 4305 - Entrepreneurial Finance *Units: 4*
- MGMT 3110 - Project Management *Units: 4*
- MKTG 3445 - Marketing Research *Units: 4*

Course Descriptions

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Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Business Administration, Marketing Management Option, B.S.

Department & Faculty Information

Business Administration (B.S.) 180 units

Program Description

The College of Business and Economics is committed to providing a broad and flexible professional education. The program offers students the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers. Recognizing the importance of ethics in the business community, business ethics is an important component in three of our required core classes.

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CBE Sample Programs

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Major Requirements (B.S.) 97-105 units

Expiration of Courses

Upper division major/option requirement courses will expire ten years after completion of the quarter in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

The B.S. degree requires a total of 180 units. The Business Administration major consists of 97-105 units. The Business Administration major requires three sets of courses:

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 - The core major consists of 73-77 units;
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 - the Marketing Management Option consists of 24 units;
 - the Operations and Supply Chain Management Option consists of 24 units.
 - GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
 - *Free Electives (if any) consist of any remainder units to reach the 180 total units (see your advisor).*

Prerequisite Courses

Students must have completed the prerequisites listed in the **course descriptions** for any course they use to satisfy the following requirements. Two key MATH prerequisites are listed here, their units are not included in the Major's total units. Check all **course descriptions** to be sure all prerequisites are met.

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Lower Division Core (29-33 units)

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- ACCT 2253 - Introduction to Managerial Accounting *Units: 4*
- ACCT 2701 - Legal Environment of Business *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*
- ITM 1270 - Fundamentals of Information Systems and Applications *Units: 4*
- MATH 1810 - Mathematics for Business and Social Sciences *Units: 4* *Note: students who plan to pursue one of the more quantitative options or a graduate program are encouraged to enroll in MATH 1304 Calculus I, in place of MATH 1810.*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
or STAT 2010 Elements of Statistics for Business and Economics

Upper Division Core (44 units)

All lower division core requirements must be completed prior to enrollment in upper division courses. *Note: Neither ECON 3107 nor MGMT 4670 can be used as an elective for any Business Administration options. Students who choose the Accounting option are strongly encouraged to take ACCT 4911 Accounting Ethics that counts towards the requirement of 4 quarter units of accounting ethics on the Ethics Study for California CPA (Certified Public Accountant) licensure.*

- ECON 3107 - Global Economic Analysis *Units: 4*
or MGMT 4670 Multinational Business
- ECON 3551 - Managerial Economics and Business Strategy *Units: 4*
- FIN 3300 - Financial Management *Units: 4*
- ITM 3060 - Information Technology Management *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*
- MGMT 3560 - Business and Professional Ethics *Units: 4*
or cross-listed: PHIL 3560
- MGMT 3614 - Organizational Behavior *Units: 4*
- MGMT 3620 - Operations Management *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*
or ACCT 4911 Accounting Ethics
- MGMT 4650 - Seminar in Strategic Business Management *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*

Option Requirements

A Business Administration B.S degree requires that students choose one of the following options. *A student cannot have both an option and a minor in the same area.*

- Business Administration, Accounting Option, B.S.
- Business Administration, Business Economics Option, B.S.
- Business Administration, Entrepreneurship Option, B.S.
- Business Administration, Finance Option, B.S.
- Business Administration, General Management Option, B.S.

- Business Administration, Human Resources Management Option, B.S.
- Business Administration, Information Technology Management (ITM) Option, B.S.
- Business Administration, Marketing Management Option, B.S.
- Business Administration, Operations and Supply Chain Management (OSCM) Option, B.S.

Marketing Management Option (24 units)

The task of marketing is to help an organization create and maintain satisfying relationships with its important customers. Students completing the Marketing Management option acquire the knowledge and skills necessary to understand the needs of customers and the market, to design effective marketing strategies, and to successfully implement and monitor the chosen marketing program. Global competition coupled with technological advances forces both for-profit and nonprofit organizations to revitalize the marketing function for their success. The growing awareness of the importance of marketing has led to an increase in the number of marketing positions available. The option prepares students for careers in advertising and promotion, brand and product management, sales and sales management, retailing, non-profit, international marketing, marketing research, new product planning, marketing logistics and public relations.

Required Option Courses:

Three course (12 units) required:

- MKTG 3445 - Marketing Research *Units: 4*
- MKTG 4400 - Integrated Marketing Management *Units: 4*
- MKTG 4417 - Consumer Behavior *Units: 4*

Option Elective Courses:

Choice of three courses (12 units) from the following list of Marketing courses:

- MKTG 3410 - Advertising Management *Units: 4*
- MKTG 3415 - Personal Selling *Units: 4*
- MKTG 3425 - Promotion *Units: 4*
- MKTG 3440 - Products and Pricing *Units: 4*
- MKTG 4417 - Consumer Behavior *Units: 4*
- MKTG 4435 - Services Marketing *Units: 4*
- MKTG 4450 - Marketing Seminar *Units: 4*
- MKTG 4470 - International Marketing *Units: 4*

Strongly Recommended:

One of the following courses are recommend: **Note:** PSYC courses may also satisfy lower division G.E. requirements.

- PSYC 1000 - General Psychology *Units: 5*
- PSYC 1001 - General Psychology and Society *Units: 5*
- PSYC 1005 - General Psychology for Healthier Living *Units: 5*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Business Administration

Business Administration, Entrepreneurship Option, M.B.A.

Department & Faculty Information

CBE Graduate Programs, M.A., M.B.A., M.S.

Description of Programs

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- **Master of Business Administration, M.B.A.** (to complete the MBA degree, students select one of the individual MBA options listed under Core Coursework below)
- **Master of Science in Accountancy, M.S.**
- **Master of Science in Business Analytics, M.S.**

Transfer of Courses

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Graduate Courses

Restricted to "Classified" and "Conditionally Classified" Graduate Students.

Classified Graduate Standing

A student who has been admitted to the M.A. program by meeting the requirements established in item 1 above; has fulfilled all prerequisite coursework and other requirements such as the University Writing Skills Requirement (UWSR); and has a strong background in economics may begin as a "Classified Graduate" student. Students admitted into the program but lacking such background will be designated as "Conditionally Classified Graduate" students until deficiencies are made up and they are recommended for "Classified Graduate" standing by the department. The student must have satisfied the University Writing Skills Requirement (UWSR) to become a "Classified Graduate" student. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Conditionally Classified Graduate Standing

A student who has been admitted to a graduate degree program but who has not satisfied all prerequisite coursework or other requirements such as the University Writing Skills Requirement is a "Conditionally Classified Graduate" student. A student may be admitted to a graduate degree program as a "Conditionally Classified" graduate student upon:

1. submission of a written application, with required supporting documents, to the Admissions Office declaring an intent to pursue the M.A. degree in Economics;
2. acceptance by the department; and
3. completion of other appropriate requirements as specified in the Admission/Graduate chapter in this catalog.

Course prerequisites are enforced but may be waived per approval of the director of Graduate Programs.

Business Administration (M.B.A.) Program Information

Graduate Faculty Advisors for M.B.A. Options

- M.B.A./Entrepreneurship: Brian McKenzie
- M.B.A./Finance: Fung-Shine Pan
- M.B.A./Human Resources and Organizational Behavior: Asha Rao
- M.B.A./Information Technology Management: Hongwei Du
- M.B.A./Marketing Management: Lan Wu
- M.B.A./Operations and Supply Chain Management: Zinovy Radovilsky
- M.B.A. Strategy and International Business: Gregory Theyel, Yi Jiang
- M.B.A./Global Innovators: Yi Jiang, Glen Taylor

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of

- past academic performance as reflected in undergraduate grade point average and subsequent coursework; and
- results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For the MBA with Options last admitted students profile, please visit: www20.csueastbay.edu/cbe/mba-options/Student-Profile.html

- GRE score, if provided, is accepted in place of GMAT. GMAT may be waived for applicants with five years or more work experience. Applicants' eligibility for a GMAT waiver is discussed during their personal interview, in which their professional achievements and academic background are addressed.

Proficiencies

All Conditionally Classified M.B.A. students must fulfill the University Writing Skills Requirement (UWSR) and M.B.A. program proficiencies. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office, Library, Room LI 3165A, phone 510-885-3661. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first quarter in the program.

Students are also expected to have completed M.B.A. proficiency requirements in introductory mathematics and statistics with a grade of "C" or better and within 7 years of starting in the program. To satisfy the mathematics proficiency, students must complete the equivalent coursework in intermediate algebra, MATH 1130 or an equivalent course. The statistics requirement may be met by a course in statistics that is equivalent to STAT 1000 or STAT 2010.

Requirements for Graduation

To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog) and have completed 52-64 quarter units meeting the following criteria:

- All have a course grade of "C" or better.
- Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
- Have no more than 16 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Postbaccalaureate" status.
- All units earned within the five years immediately preceding the completion of the requirements for the degree.
- Have completed a satisfactory program of study, defined below.

M.B.A. Coursework 52-64 units

Fundamental Coursework (0-12 units)

Fundamental coursework must be completed before enrolling in any M.B.A. core course, except MGMT 6120 and MKTG 6120. Fundamental coursework can be waived by passing an exam on a course by course basis. Exams are offered once per quarter. There is a fee of \$25 for each exam. Please see the M.B.A. website <http://www.mba.csueastbay.edu> or contact the CBE Graduate Programs Office (VBT 430, phone 510.885.2419) for dates and registration information.

- ACCT 6015 - Financial Accounting *Units: 4*
- ITM 6015 - Information Systems Development and Management *Units: 4*

- **MGMT 6015 - Data Analysis and Decision Modeling for Managers** *Units: 4*

Core Coursework

Nine courses (36 units) required from the following: **Note:** MGMT 6120 and MKTG 6120 should be taken before other core courses. These two courses only require proficiencies as prerequisites. All remaining core courses require both proficiencies and fundamental coursework.

- **MGMT 6120 - Globalization, Innovation and Sustainability** *Units: 4*
- **MKTG 6120 - Managerial Communication** *Units: 4*
- **ACCT 6215 - Managerial Accounting** *Units: 4*
- **ECON 6215 - Economics for Managers in a Global Economy** *Units: 4*
- **FIN 6215 - Corporate Financial Management** *Units: 4*
- **MGMT 6215 - Business, Government and Society** *Units: 4*
- **MGMT 6220 - Operations and Supply Chain Management** *Units: 4*
- **MGMT 6225 - Executive Leadership** *Units: 4*
- **MKTG 6215 - Marketing Management** *Units: 4*

Core Capstone

Choice of two courses (4 units) from the following:

- **ENTR 6800 - Entrepreneurship Practicum** *Units: 4*
- **MGMT 6800 - Seminar in Strategic Management** *Units: 4*

Option Requirements:

A Master of Business Administration (M.B.A.) degree can be completed by choosing 12 units of electives or by choosing an option. The individual links will provide further information below.

- Business Administration, M.B.A.
- Business Administration, Entrepreneurship Option, M.B.A.
- Business Administration, Finance Option, M.B.A.
- Business Administration, Global Innovators Option, M.B.A.
- Business Administration, Human Resources and Organizational Behavior Option, M.B.A.
- Business Administration, Information Technology Management Option, M.B.A.
- Business Administration, Marketing Management Option, M.B.A.
- Business Administration, Operations and Supply Chain Management Option, M.B.A.
- Business Administration, Strategy and International Business Option, M.B.A.

Entrepreneurship Option

Required Courses (12 Units)

- **ENTR 6480 - Introduction to Entrepreneurship** *Units: 4*
- **ENTR 6485 - New Venture Development** *Units: 4*
- **MGMT 6520 - Negotiation for Managers and Entrepreneurs** *Units: 4*

Other Graduate and Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation which are described throughout this catalog. These requirements include the 32-unit residence requirement, the five-year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website or call 510.885.3661.

Business Administration, Marketing Management Option, M.B.A.

Department & Faculty Information

CBE Graduate Programs, M.A., M.B.A., M.S.

Description of Programs

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Transfer of Courses

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Graduate Courses

Restricted to "Classified" and "Conditionally Classified" Graduate Students.

Classified Graduate Standing

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2. acceptance by the department; and
3. completion of other appropriate requirements as specified in the Admission/Graduate chapter in this catalog.

Course prerequisites are enforced but may be waived per approval of the director of Graduate Programs.

Business Administration (M.B.A.) Program Information

Graduate Faculty Advisors for M.B.A. Options

- M.B.A./Entrepreneurship: Brian McKenzie
- M.B.A./Finance: Fung-Shine Pan
- M.B.A./Human Resources and Organizational Behavior: Asha Rao
- M.B.A./Information Technology Management: Hongwei Du
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Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of

- past academic performance as reflected in undergraduate grade point average and subsequent coursework; and
- results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For the MBA with Options last admitted students profile, please visit: www20.csueastbay.edu/cbe/mba-options/Student-Profile.html
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M.B.A. Coursework 52-64 units

Fundamental Coursework (0-12 units)

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Nine courses (36 units) required from the following: **Note:** MGMT 6120 and MKTG 6120 should be taken before other core courses. These two courses only require proficiencies as prerequisites. All remaining core courses require both proficiencies and fundamental coursework.

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- MGMT 6225 - Executive Leadership *Units: 4*
- MKTG 6215 - Marketing Management *Units: 4*

Core Capstone

Choice of two courses (4 units) from the following:

- ENTR 6800 - Entrepreneurship Practicum *Units: 4*
- MGMT 6800 - Seminar in Strategic Management *Units: 4*

Option Requirements:

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- Business Administration, Operations and Supply Chain Management Option, M.B.A.
- Business Administration, Strategy and International Business Option, M.B.A.

Marketing Management Option (12 units)

Select three courses from the following:

- MKTG 6401 - Marketing Research *Units: 4*
- MKTG 6410 - Buyer Behavior *Units: 4*
- MKTG 6411 - Product Management *Units: 4*
- MKTG 6413 - Integrated Marketing Communications *Units: 4*
- MKTG 6414 - Distribution Management *Units: 4*
- MKTG 6450 - Seminar in Selected Marketing Topics *Units: 4*

- MKTG 6470 - International Marketing *Units: 4*
- MKTG 6999 - Issues in Marketing *Units: 4*

Course Descriptions

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Business Administration, Strategy and International Business Option, M.B.A.

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M.B.A. Coursework 52-64 units

Fundamental Coursework (0-12 units)

Fundamental coursework must be completed before enrolling in any M.B.A. core course, except MGMT 6120 and MKTG 6120. Fundamental coursework can be waived by passing an exam on a course by course basis. Exams are offered once per quarter. There is a fee of \$25 for each exam. Please see the M.B.A. website <http://www.mba.csueastbay.edu> or contact the CBE Graduate Programs Office (VBT 430, phone 510.885.2419) for dates and registration information.

- ACCT 6015 - Financial Accounting *Units: 4*

- ITM 6015 - Information Systems Development and Management *Units: 4*
- MGMT 6015 - Data Analysis and Decision Modeling for Managers *Units: 4*

Core Coursework

Nine courses (36 units) required from the following: **Note:** MGMT 6120 and MKTG 6120 should be taken before other core courses. These two courses only require proficiencies as prerequisites. All remaining core courses require both proficiencies and fundamental coursework.

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- MGMT 6220 - Operations and Supply Chain Management *Units: 4*
- MGMT 6225 - Executive Leadership *Units: 4*
- MKTG 6215 - Marketing Management *Units: 4*

Core Capstone

Choice of two courses (4 units) from the following:

- ENTR 6800 - Entrepreneurship Practicum *Units: 4*
- MGMT 6800 - Seminar in Strategic Management *Units: 4*

Option Requirements:

A Master of Business Administration (M.B.A.) degree can be completed by choosing 12 units of electives or by choosing an option. The individual links will provide further information below.

- Business Administration, M.B.A.
- Business Administration, Entrepreneurship Option, M.B.A.
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- Business Administration, Operations and Supply Chain Management Option, M.B.A.
- Business Administration, Strategy and International Business Option, M.B.A.

Strategy and International Business Option (12 units)

Choice of three courses (12 units) from the following:

- MGMT 6420 - Competitive Strategy *Units: 4*

- MGMT 6440 - Global Strategy *Units: 4*
- MGMT 6460 - Strategic Management for a Sustainable Society *Units: 4*
- MGMT 6470 - Management of Technology and Innovation *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate and Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation which are described throughout this catalog. These requirements include the 32-unit residence requirement, the five-year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website or call 510.885.3661.

Minor

Advertising Minor

Department & Faculty Information

Program Information

The Advertising Minor allows students to integrate an interdisciplinary set of advertising-related courses with their own major and their general education requirements. This may be an attractive specialization for students in such majors as business, communication, art, or psychology.

Careers in advertising include positions with advertising agencies in account supervision, copywriting, production, traffic, marketing and media research, and media buying.

Students with advertising skills are also in demand for the advertising and public relations departments of corporations and not-for-profit organizations, in radio, television, newspapers and magazines, and in specialty firms such as direct mail, outdoor and new media advertising, marketing research agencies, production shops, and syndicated data services.

Students in the Advertising Minor are urged to complete some of the listed elective courses and, in particular, to seek out co-op education or internship placements during their junior and senior years. Practical working experience is available through active participation in The Advertising Agency, which serves The Pioneer within the Department of Communication.

Minor Requirements (42 units)

Prerequisite Courses

Students must have completed the prerequisites listed in the **course descriptions** for any course they use to satisfy the following requirements. Some key prerequisites are listed here, their units are not included in the Minor's total units. Check all **course descriptions** to be sure all prerequisites are met.

- ECON 2301 - Principles of Microeconomics *Units: 4*
- ENGL 1001 - College Writing I *Units: 4*
- SOC 1000 - Introduction to Sociology *Units: 4*

Course Requirements

Complete these 20 units:

- COMM 4520 - Advertising Form and Function *Units: 4*
- COMM 4530 - Communication Campaigns *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*
- MKTG 3410 - Advertising Management *Units: 4*
- 4 units from an advisor-approved Art activity course

And choose one (1) course from EACH of the following groups:

- ENGL 2005 - Grammar for Writers *Units: 4*
- ENGL 3005 - Study of Language *Units: 4*
- MKTG 3445 - Marketing Research *Units: 4*
- SOC 4111 - Methods of Sociological Research I *Units: 4*
- MKTG 4412 - Media Planning *Units: 4*
- COMM 3100 - Introduction to Professional Video Production *Units: 4*
- PSYC 1000 - General Psychology *Units: 5*
- PSYC 1001 - General Psychology and Society *Units: 5*
- PSYC 1005 - General Psychology for Healthier Living *Units: 5*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 2010 - Elements of Statistics for Business and Economics *Units: 5*

Strongly Recommended Courses

See your academic advisor for additional recommended courses.

- PSYC 1100 - Critical Thinking in Psychology *Units: 4*
- PSYC 4740 - Psycholinguistics *Units: 4*
- Co-op Ed or internship experiences in advertising and/or public relations *Units: 4-8*

Additional Electives Relevant to the Minor

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- ART 3600 - Digital Photography II *Units: 4*
- COMM 3600 - Digital Photography II *Units: 4*
- ART 4600 - Image and Idea *Units: 4*

- COMM 4600 - Image and Idea *Units: 4*
- COMM 4510 - Public Relations Theory and Practice *Units: 4*
- MKTG 3425 - Promotion *Units: 4*
- MKTG 4415 - Corporate Communications *Units: 4*
- SOC 1000 - Introduction to Sociology *Units: 4*

Course Descriptions

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Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Marketing Minor

Department & Faculty Information

The minor in Marketing is offered through the Department of Marketing. Business Administration majors who want to have this minor listed on their transcripts must have at least 18 units in the minor that are not counted in the major requirements.

Minor Requirements (32 units)

Note: Students must have completed the prerequisites listed in the course description for any course they use to satisfy the following requirements.

Lower Division

Three courses (12 units) required:

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ENTR 2485 - Establishing and Managing a Small Business *Units: 4*

Upper Division

Five courses (20 units) required:

- MGMT 3614 - Organizational Behavior *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*

- Select three additional Marketing courses for 12 units (excluding: ENTR 4485, ENTR 4490, and MKTG 3495).

Course Descriptions

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Other Undergraduate Degree Requirements

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Department of Mathematics

The Department Office is located on the 5th Floor of the Student Faculty Support (SF) building, Room 570.

Hours Open: 8:00 a.m. to 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-3434

Faculty

Professor Emeritus

Stuart Smith, Ph.D. University of California, Berkeley

Professors

Kevin E. Callahan, Ph.D. University of California, San Diego

Julie S. Glass (Chair), Ph.D. University of California, Santa Cruz

Kathleen Hann, Ph.D. University of California, Davis

Massoud Malek, Ph.D. University of Houston

Donald L. Wolitzer, Ph.D. Northeastern University

Associate Professors

Julia Olkin, Ph.D. Rice University

Chung-Hsing OuYang, Ph.D. University of California, Berkeley

Shirley Yap, Ph.D. University of Pennsylvania

Assistant Professors

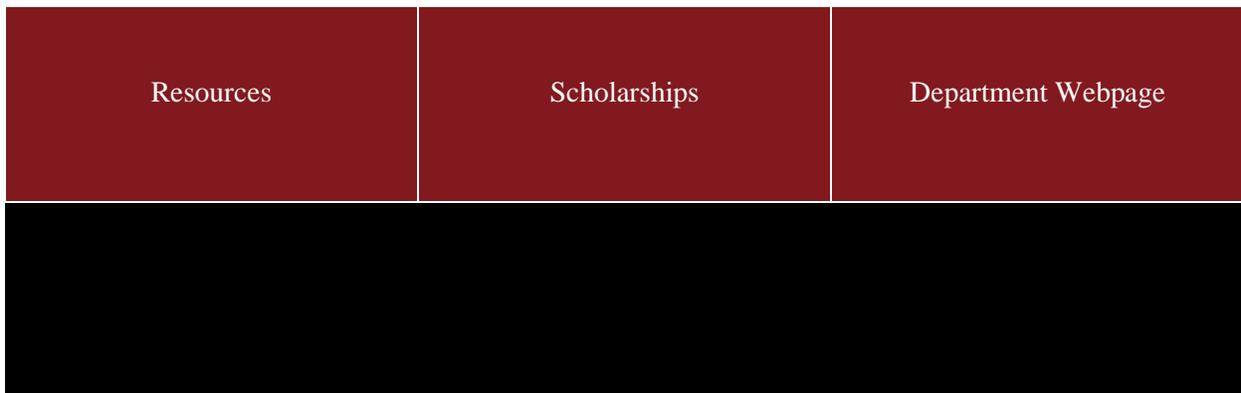
Ehsan Kamalinejad, Ph.D. University of Toronto (Canada)

Jesus Oliver, Ph.D. University of California, San Diego

Graduate Coordinator: Donald L. Wolitzer

Department Statement

The Mathematics Department is a large and flourishing department, offering a variety of courses at a variety of times. There are faculty with a wide range of backgrounds and interests. The department offers 50 undergraduate Math courses, and 30 graduate Math courses. The department strives to provide a quality education to a diverse student community, which totals well over 1000 students.



Bachelor of Science

Mathematics, Applied Mathematics Option, B.S.

Department & Faculty Information

Mathematics (B.S.) 180 units

Program Description

Modern technological society has many fields that need specialists in mathematics. The Department of Mathematics offers a variety of courses intended for those who want to pursue a career in mathematics as well as those who wish to develop quantitative and problem-solving skills for use in other fields.

Students choose to major in mathematics for a number of reasons. Some intend to become high school, community college, or university teachers. Others seek careers in business, industry, or government, where mathematically trained people are in demand. An undergraduate major in mathematics is one of the

best preparations not only for studying advanced Mathematics, but also for graduate work in Computer Science, Statistics, Operations Research, Actuarial Science, and the Natural Sciences. Most law schools are pleased to accept students with rigorous and logical training in Mathematics.

Many students combine their study of mathematics with the study of computer science. A popular option is to obtain a double major in Mathematics and Computer Science. Or students may earn a major in Mathematics with a minor in Computer Science.

The major requires seven lower division courses and eleven upper division mathematics courses. The requirements are flexible enough that a student can choose one of several options according to his/her interest.

Each student is assigned a faculty advisor when (s)he declares a major and should consult this advisor regularly. A booklet containing a number of sample schedules, as well as further information about the mathematics major, is available in the Mathematics/Computer Science Student Service Center (SF 570) or see the departmental website.

Although it is not a requirement, mathematics majors are urged to take as many courses as possible in an area such as Biology, Chemistry, Economics, Management Sciences, Physics, or Statistics. These are all fields where Mathematics plays a significant role, and it is important for a mathematics major to appreciate the relevance of the subject in applications. Study of one or more foreign languages is also recommended, especially for those students anticipating graduate study.

Student Learning Outcomes

Students graduating with a B.S. in Mathematics from Cal State East Bay will be able to:

1. Apply the definitions, techniques and theorems of undergraduate abstract mathematics.
2. Apply the definitions, techniques and theorems of undergraduate applied mathematics.
3. Apply mathematical algorithms to solve problems, both individually and in teams.
4. Creatively conjecture and rigorously write, analyze and critique proofs.
5. Communicate mathematics to others in written and/or oral form with precision, clarity and organization.
6. Apply techniques of at least one area of mathematics in depth.

Career Opportunities

- Actuary
- Computer Analyst
- Cryptologist
- Economist
- Engineer
- Engineering Analyst
- Financial Analyst
- Market Researcher
- Mathematician
- Numerical Analyst
- Operations Research Analyst
- Personnel Representative
- Programmer
- Professor/Teacher
- Publisher Representative

- Statistician
- Stockbroker
- Technical Writer

Features

Cal State East Bay students can participate in the Mathematics Club, which features lectures by students and faculty and offers a variety of social activities.

Each year the department awards a number of scholarships covering a portion of fees for the subsequent year. Scholarship applications may be obtained from the department student service center office during the Winter quarter.

Qualified upper division and graduate students may be employed as graders for classes.

Students who intend to earn a high school teaching credential after graduation may apply most of their mathematics major courses to meet the standards of California's Single Subject Matter Preparation Program for a Single Subject Credential in Mathematics.

Math majors who continue on to earn a master's degree in mathematics may pursue a career as a community college mathematics teacher.

Preparation

For Advanced Placement course equivalencies, see Registration chapter.

Major Requirements (B.S.) 72 units

Because requirements are subject to change, consult an advisor in your major department for clarification and interpretation of your major requirements. The BS degree requires a total of 180 units.

- The core major consists of 40 units;
- the Applied Mathematics Option consists of 32 units;
- the Mathematics Teaching Option consists of 32 units.
- the Pure Mathematics Option consists of 32 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (28 units)

This requirement consists of the following seven (7) courses:

Note: A student who has recently taken a pre-calculus course in high school should be prepared to begin the calculus sequence. A student with three years of high school mathematics, including two years of algebra and one year of geometry, should be prepared to take MATH 1130, or possibly MATH 1300. Students who are unsure about what mathematics course to begin with should call the department office. Students may not enroll in any baccalaureate level mathematics course unless they have met the Entry Level Mathematics (ELM) requirement, or are exempt from it. Contact the Testing Office 885-3661 for more information.

- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*

- MATH 2304 - Calculus III *Units: 4*
- MATH 2305 - Calculus IV *Units: 4*
- CS 1160 - Introduction to Computer Science I *Units: 4*
- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2150 - Discrete Structures *Units: 4* (Mathematics majors may substitute MATH 3151 or MATH 4151)

Upper Division Core (12 units)

- MATH 3000 - Introduction to Abstract Mathematics and Proofs *Units: 4* (*students are encouraged to take as early as possible*)
- MATH 3100 - Linear Algebra *Units: 4*
- MATH 3331 - Differential Equations *Units: 4*

Option Requirements

Every Mathematics major is required to complete one of the following options:

- Mathematics, Applied Mathematics Option, B.S.
- Mathematics, Mathematics Teaching Option, B.S.
- Mathematics, Pure Mathematics Option, B.S.

Applied Mathematics Option (32 units)

Three (3) out of the four courses from the following two sequences (12 units):

- MATH 3121 - Abstract Algebra I *Units: 4*
- MATH 3122 - Abstract Algebra II *Units: 4*
- MATH 3300 - Analysis I *Units: 4*
- MATH 3301 - Analysis II *Units: 4*

And two sequences from the following four (16 units):

- MATH 3151 - Combinatorics *Units: 4*
- MATH 4151 - Graph Theory *Units: 4*
- MATH 3361 - Ordinary Differential Equations *Units: 4*
- MATH 4361 - Partial Differential Equations *Units: 4*
- MATH 3750 - Numerical Analysis I *Units: 4*
- MATH 4750 - Numerical Analysis II *Units: 4*
- MATH 3841 - Linear Programming *Units: 4*
- MATH 4841 - Topics in Optimization *Units: 4*

Electives (4 units)

One (1) upper division course, which may include any upper division mathematics course (except MATH 4012, 4013, 4014, 4030) not already taken for the major or:

- STAT 3401 - Introduction to Probability Theory I *Units: 4*
- STAT 3402 - Introduction to Probability Theory II *Units: 4*
- STAT 3502 - Statistical Inference I *Units: 4*
- STAT 3503 - Statistical Inference II *Units: 4*
- STAT 3601 - Statistics and Probability for Science and Engineering I *Units: 4*
- STAT 4401 - Introduction to Stochastic Processes *Units: 4*
- STAT 4515 - Applied Multivariate Analysis *Units: 4*
- STAT 4601 - Regression *Units: 4*
- CS 4170 - Theory of Automata *Units: 4*
- CS 4245 - Analysis of Algorithms *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Mathematics, Mathematics Teaching Option, B.S.

Department & Faculty Information

Mathematics (B.S.) 180 units

Program Description

Modern technological society has many fields that need specialists in mathematics. The Department of Mathematics offers a variety of courses intended for those who want to pursue a career in mathematics as well as those who wish to develop quantitative and problem-solving skills for use in other fields.

Students choose to major in mathematics for a number of reasons. Some intend to become high school, community college, or university teachers. Others seek careers in business, industry, or government, where mathematically trained people are in demand. An undergraduate major in mathematics is one of the best preparations not only for studying advanced Mathematics, but also for graduate work in Computer Science, Statistics, Operations Research, Actuarial Science, and the Natural Sciences. Most law schools are pleased to accept students with rigorous and logical training in Mathematics.

Many students combine their study of mathematics with the study of computer science. A popular option is to obtain a double major in Mathematics and Computer Science. Or students may earn a major in Mathematics with a minor in Computer Science.

The major requires seven lower division courses and eleven upper division mathematics courses. The requirements are flexible enough that a student can choose one of several options according to his/her interest.

Each student is assigned a faculty advisor when (s)he declares a major and should consult this advisor regularly. A booklet containing a number of sample schedules, as well as further information about the mathematics major, is available in the Mathematics/Computer Science Student Service Center (SF 570) or see the departmental website.

Although it is not a requirement, mathematics majors are urged to take as many courses as possible in an area such as Biology, Chemistry, Economics, Management Sciences, Physics, or Statistics. These are all fields where Mathematics plays a significant role, and it is important for a mathematics major to appreciate the relevance of the subject in applications. Study of one or more foreign languages is also recommended, especially for those students anticipating graduate study.

Student Learning Outcomes

Students graduating with a B.S. in Mathematics from Cal State East Bay will be able to:

1. Apply the definitions, techniques and theorems of undergraduate abstract mathematics.
2. Apply the definitions, techniques and theorems of undergraduate applied mathematics.
3. Apply mathematical algorithms to solve problems, both individually and in teams.
4. Creatively conjecture and rigorously write, analyze and critique proofs.
5. Communicate mathematics to others in written and/or oral form with precision, clarity and organization.
6. Apply techniques of at least one area of mathematics in depth.

Career Opportunities

- Actuary
- Computer Analyst
- Cryptologist
- Economist
- Engineer
- Engineering Analyst
- Financial Analyst
- Market Researcher
- Mathematician
- Numerical Analyst
- Operations Research Analyst
- Personnel Representative
- Programmer
- Professor/Teacher
- Publisher Representative
- Statistician
- Stockbroker
- Technical Writer

Features

Cal State East Bay students can participate in the Mathematics Club, which features lectures by students and faculty and offers a variety of social activities.

Each year the department awards a number of scholarships covering a portion of fees for the subsequent year. Scholarship applications may be obtained from the department student service center office during the Winter quarter.

Qualified upper division and graduate students may be employed as graders for classes.

Students who intend to earn a high school teaching credential after graduation may apply most of their mathematics major courses to meet the standards of California's Single Subject Matter Preparation Program for a Single Subject Credential in Mathematics.

Math majors who continue on to earn a master's degree in mathematics may pursue a career as a community college mathematics teacher.

Preparation

For Advanced Placement course equivalencies, see Registration chapter.

Major Requirements (B.S.) 72 units

Because requirements are subject to change, consult an advisor in your major department for clarification and interpretation of your major requirements. The BS degree requires a total of 180 units.

- The core major consists of 40 units;
- the Applied Mathematics Option consists of 32 units;
- the Mathematics Teaching Option consists of 32 units.
- the Pure Mathematics Option consists of 32 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (28 units)

This requirement consists of the following seven (7) courses:

Note: A student who has recently taken a pre-calculus course in high school should be prepared to begin the calculus sequence. A student with three years of high school mathematics, including two years of algebra and one year of geometry, should be prepared to take MATH 1130, or possibly MATH 1300. Students who are unsure about what mathematics course to begin with should call the department office. Students may not enroll in any baccalaureate level mathematics course unless they have met the Entry Level Mathematics (ELM) requirement, or are exempt from it. Contact the Testing Office 885-3661 for more information.

- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2304 - Calculus III *Units: 4*
- MATH 2305 - Calculus IV *Units: 4*
- CS 1160 - Introduction to Computer Science I *Units: 4*

- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2150 - Discrete Structures *Units: 4* (Mathematics majors may substitute MATH 3151 or MATH 4151)

Upper Division Core (12 units)

- MATH 3000 - Introduction to Abstract Mathematics and Proofs *Units: 4* (*students are encouraged to take as early as possible*)
- MATH 3100 - Linear Algebra *Units: 4*
- MATH 3331 - Differential Equations *Units: 4*

Option Requirements

Every Mathematics major is required to complete one of the following options:

- Mathematics, Applied Mathematics Option, B.S.
- Mathematics, Mathematics Teaching Option, B.S.
- Mathematics, Pure Mathematics Option, B.S.

Mathematics Teaching Option (32 units)

Required Courses

- MATH 3121 - Abstract Algebra I *Units: 4*
- MATH 3215 - Geometry I *Units: 4*
- MATH 3300 - Analysis I *Units: 4*
- MATH 3600 - Number Theory *Units: 4*
- MATH 4040 - History of Mathematics *Units: 4*
- STAT 3401 - Introduction to Probability Theory I *Units: 4*

And one from the following three courses:

- MATH 3122 - Abstract Algebra II *Units: 4*
- MATH 3301 - Analysis II *Units: 4*
- MATH 4215 - Topics in Geometry *Units: 4*

Electives

One (1) upper division course, which may include any upper division mathematics course (except MATH 4012, 4013, 4014, 4030) not already taken for the major or:

- STAT 3402 - Introduction to Probability Theory II *Units: 4*
- STAT 3502 - Statistical Inference I *Units: 4*
- STAT 3503 - Statistical Inference II *Units: 4*
- STAT 3601 - Statistics and Probability for Science and Engineering I *Units: 4*
- STAT 4401 - Introduction to Stochastic Processes *Units: 4*
- STAT 4515 - Applied Multivariate Analysis *Units: 4*
- STAT 4601 - Regression *Units: 4*

- CS 4170 - Theory of Automata *Units: 4*
- CS 4245 - Analysis of Algorithms *Units: 4*

Note: Single Subject Matter Preparation

A student who completes the Mathematics Teaching Option can satisfy rather easily the requirements for the State-approved Single Subject Matter Preparation Program in Mathematics, a program of courses designed to prepare the student for entry into the Credential Program in Mathematics, provided that judicious choices of mathematics elective courses and general education courses are made. To accomplish this, the student who completes the Mathematics Teaching Option must:

- Choose MATH 4901 - Senior Seminar 4 in the mathematics elective category;
- Complete STAT 3502 - Statistical Inference I 4; and
- Complete TED 3001 - Exploring Education 3 and/or other field experience approved by the Mathematics Subject Matter Preparation Adviser: At least 45 hours of classroom experience in an instructional capacity is required.

Course Descriptions

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Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Mathematics, Pure Mathematics Option, B.S.

Department & Faculty Information

Mathematics (B.S.) 180 units

Program Description

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- Economist
- Engineer
- Engineering Analyst
- Financial Analyst
- Market Researcher
- Mathematician
- Numerical Analyst
- Operations Research Analyst
- Personnel Representative
- Programmer
- Professor/Teacher
- Publisher Representative
- Statistician
- Stockbroker
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Preparation

For Advanced Placement course equivalencies, see Registration chapter.

Major Requirements (B.S.) 72 units

Because requirements are subject to change, consult an advisor in your major department for clarification and interpretation of your major requirements. The BS degree requires a total of 180 units.

- The core major consists of 40 units;
- the Applied Mathematics Option consists of 32 units;
- the Mathematics Teaching Option consists of 32 units.
- the Pure Mathematics Option consists of 32 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (28 units)

This requirement consists of the following seven (7) courses:

Note: A student who has recently taken a pre-calculus course in high school should be prepared to begin the calculus sequence. A student with three years of high school mathematics, including two years of algebra and one year of geometry, should be prepared to take MATH 1130, or possibly MATH 1300. Students who are unsure about what mathematics course to begin with should call the department office. Students may not enroll in any baccalaureate level mathematics course unless they have met the Entry Level Mathematics (ELM) requirement, or are exempt from it. Contact the Testing Office 885-3661 for more information.

- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2304 - Calculus III *Units: 4*
- MATH 2305 - Calculus IV *Units: 4*
- CS 1160 - Introduction to Computer Science I *Units: 4*

- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2150 - Discrete Structures *Units: 4* (Mathematics majors may substitute MATH 3151 or MATH 4151)

Upper Division Core (12 units)

- MATH 3000 - Introduction to Abstract Mathematics and Proofs *Units: 4* (*students are encouraged to take as early as possible*)
- MATH 3100 - Linear Algebra *Units: 4*
- MATH 3331 - Differential Equations *Units: 4*

Option Requirements

Every Mathematics major is required to complete one of the following options:

- Mathematics, Applied Mathematics Option, B.S.
- Mathematics, Mathematics Teaching Option, B.S.
- Mathematics, Pure Mathematics Option, B.S.

Pure Mathematics Option (32 units)

Required Courses (16 units)

- MATH 3121 - Abstract Algebra I *Units: 4*
- MATH 3122 - Abstract Algebra II *Units: 4*
- MATH 3300 - Analysis I *Units: 4*
- MATH 3301 - Analysis II *Units: 4*

And one sequence from the following five:

- MATH 3151 - Combinatorics *Units: 4*
- MATH 4151 - Graph Theory *Units: 4*
- MATH 3215 - Geometry I *Units: 4*
- MATH 4215 - Topics in Geometry *Units: 4*
- MATH 3361 - Ordinary Differential Equations *Units: 4*
- MATH 4361 - Partial Differential Equations *Units: 4*
- MATH 3750 - Numerical Analysis I *Units: 4*
- MATH 4750 - Numerical Analysis II *Units: 4*
- MATH 3841 - Linear Programming *Units: 4*
- MATH 4841 - Topics in Optimization *Units: 4*

Electives (8 units)

Two (2) upper division courses, which may include any upper division mathematics course (except MATH 4012, 4013, 4014, 4030) not already taken for the major or:

- STAT 3401 - Introduction to Probability Theory I *Units: 4*
- STAT 3402 - Introduction to Probability Theory II *Units: 4*
- STAT 3502 - Statistical Inference I *Units: 4*
- STAT 3503 - Statistical Inference II *Units: 4*
- STAT 3601 - Statistics and Probability for Science and Engineering I *Units: 4*
- STAT 4401 - Introduction to Stochastic Processes *Units: 4*
- STAT 4515 - Applied Multivariate Analysis *Units: 4*
- STAT 4601 - Regression *Units: 4*
- CS 4170 - Theory of Automata *Units: 4*
- CS 4245 - Analysis of Algorithms *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Single Subject Preparation (Undergraduate)

Foundational-level Mathematics, Single Subject Matter Preparation

Department & Faculty Information

Single Subject Matter Preparation Programs

- Foundational-level Mathematics, Single Subject Matter Preparation
- Mathematics, Single Subject Matter Preparation
- Music, Single Subject Matter Preparation Program
- Physical Education, Single Subject Matter Preparation
- Social Science, Single Subject Matter Preparation

Mathematics Preparation Programs

The Department of Mathematics offers two preparation programs for future mathematics teachers; the Single Subject Matter Program in Mathematics and the Subject Matter Program in Foundational-level Mathematics. Undergraduate students interested in teaching mathematics at the middle or high school level are strongly encouraged to complete the Single Subject Matter Program in Mathematics. Completion

of the Single Subject Matter Program in Mathematics establishes subject matter competency in mathematics for future teachers to teach all mathematics at the K-12 level. Completion of the Subject Matter Program in Foundational-level Mathematics establishes subject matter competency in mathematics for future teachers to teach mathematics at the middle school level and for some mathematics courses at the high school level.

Single Subject Matter Preparation Program in Foundational-level Mathematics

Completion of the Subject Matter Preparation Program in Foundational-level Mathematics is certified by the Department of Mathematics and Computer Science. In addition to the required mathematics courses, a year of education courses and practice teaching is required before the California Secondary Teaching Credential in Foundational-level Mathematics can be granted. Forty-eight quarter units are required in the Subject Matter Preparation Program in Foundational-level Mathematics. Current holders of a California Multiple Subjects Credential or Single Subject Credential in a field other than mathematics will also need to complete additional Teacher Education courses to add an authorization in Foundational-level Mathematics. For additional information, contact the Department of Mathematics and Computer Science: North Science 337; 510-885-4011; e-mail: mathcs@csueastbay.edu; website: <http://www20.csueastbay.edu/csci/departments/math-cs/index.html>.

Core Mathematics Courses (32 quarter units)

- MATH 1130 - College Algebra *Units: 4*
- MATH 1300 - Trigonometry and Analytic Geometry *Units: 4*
- MATH 1810 - Mathematics for Business and Social Sciences *Units: 4*
- MATH 2011 - Number Systems *Units: 4*
- MATH 4012 - Geometry and Measurement *Units: 4*
- MATH 4013 - Statistics, Data Analysis, and Probability *Units: 4*
- MATH 4014 - Algebra and Functions *Units: 4*
- MATH 4030 - Advanced Study of School Mathematics *Units: 4*

Extended Study of Mathematics-based or Affiliated Courses (16 quarter units)

Additional courses not used above chosen from the following list or from other related courses approved by the Mathematics Subject Matter Preparation Program Adviser.

- CHEM 1100 - Introduction to College Chemistry *Units: 5*
- CS 1080 - Introduction to Media Computation *Units: 4*
- CS 1160 - Introduction to Computer Science I *Units: 4*
- ENGR 1011 - Engineering: An Introduction *Units: 3*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2150 - Discrete Structures *Units: 4*
- MATH 3000 - Introduction to Abstract Mathematics and Proofs *Units: 4*
- MATH 4040 - History of Mathematics *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*

- PHIL 1001 - Introduction to Logic *Units: 4*
- PHIL 3002 - Modern Logic *Units: 4*
- PHYS 1700 - Elementary Physics *Units: 4*
- PHYS 1800 - Astronomy *Units: 4*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Mathematics, Single Subject Matter Preparation

Department & Faculty Information

Single Subject Matter Preparation Programs

- Foundational-level Mathematics, Single Subject Matter Preparation
- Mathematics, Single Subject Matter Preparation
- Music, Single Subject Matter Preparation Program
- Physical Education, Single Subject Matter Preparation
- Social Science, Single Subject Matter Preparation

Mathematics Preparation Programs

The Department of Mathematics offers two preparation programs for future mathematics teachers; the Single Subject Matter Program in Mathematics and the Subject Matter Program in Foundational-level Mathematics. Undergraduate students interested in teaching mathematics at the middle or high school level are strongly encouraged to complete the Single Subject Matter Program in Mathematics. Completion of the Single Subject Matter Program in Mathematics establishes subject matter competency in mathematics for future teachers to teach all mathematics at the K-12 level. Completion of the Subject Matter Program in Foundational-level Mathematics establishes subject matter competency in mathematics for future teachers to teach mathematics at the middle school level and for some mathematics courses at the high school level.

Single Subject Matter Preparation Program in Mathematics

Completion of the Single Subject Matter Preparation Program in Mathematics is certified by the Department of Mathematics. A student need not be a mathematics major to complete this program;

however, students who complete the mathematics major with Option C (Mathematics Teaching) should find it relatively easy to meet the requirements of the program, as noted in the description of Option C requirements in the undergraduate Mathematics chapter. In addition to the required mathematics courses, a year of education courses and practice teaching is required before the California Secondary Teaching Credential in Mathematics can be granted. Seventy-one quarter units are required in the Single Subject Matter Preparation Program in Mathematics. For additional information, contact:

Department of Mathematics

SF 570

510.885.3434

math@csueastbay.edu

math.csueatbay.edu

I. Core Mathematics (48 units)

- MATH 1130 - College Algebra *Units: 4*
- MATH 1300 - Trigonometry and Analytic Geometry *Units: 4*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2304 - Calculus III *Units: 4*
- MATH 3121 - Abstract Algebra I *Units: 4*
- MATH 3215 - Geometry I *Units: 4*
- MATH 3600 - Number Theory *Units: 4*
- MATH 4040 - History of Mathematics *Units: 4*
- MATH 4901 - Senior Seminar *Units: 4*
- STAT 3401 - Introduction to Probability Theory I *Units: 4*

II. Coursework Providing Breadth and Perspective (23 units)

Mathematics courses (12 quarter units):

- MATH 3000 - Introduction to Abstract Mathematics and Proofs *Units: 4*
- MATH 3300 - Analysis I *Units: 4*
- MATH 3331 - Differential Equations *Units: 4*

Statistics course (4 quarter units)

- STAT 3502 - Statistical Inference I *Units: 4*

Computer Science or discrete structures course (4 quarter units):

- CS 1160 - Introduction to Computer Science I *Units: 4*

or

- MATH 2150 - Discrete Structures *Units: 4*

Field Experience (0-3 quarter units):

- TED 3001 - Exploring Education *Units: 3*

Note:

And/or other field experience approved by the Mathematics Subject Matter Preparation Adviser: At least 45 hours of classroom experience in an instructional capacity is required.

Electives (0-3 quarter units):

Additional courses not used above to bring the total Breadth and Perspective units to at least 23, chosen from the following list or from other related courses approved by the Mathematics Subject Matter Preparation Adviser:

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- CHEM 1103 - General Chemistry *Units: 5*
- CS 1160 - Introduction to Computer Science I *Units: 4*
- CS 2360 - Introduction to Computer Science II *Units: 4*
- CS 2430 - Computer Organization and Assembly Language Programming *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*
- MATH 3100 - Linear Algebra *Units: 4*
- MATH 3122 - Abstract Algebra II *Units: 4*
- MATH 3301 - Analysis II *Units: 4*
- MATH 4215 - Topics in Geometry *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*
- PHIL 1001 - Introduction to Logic *Units: 4*
- PHIL 3002 - Modern Logic *Units: 4*
- PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations *Units: 5*
- PHYS 1002 - General Physics: Thermodynamics and Optics *Units: 5*
- PHYS 1003 - General Physics: Electromagnetism *Units: 5*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women

requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Science

Mathematics, Applied Mathematics Option, M.S.

Department & Faculty Information

Mathematics (M.S.) 45 units

Program Description

The Mathematics Department offers graduate study leading to the degree of Master of Science in Mathematics. The goal of the faculty is to provide excellent instruction in advanced mathematics and to maintain a supportive environment for graduate students. Students who complete the program should be equipped for careers in community college teaching or positions in industry that require knowledge of mathematics beyond the undergraduate level. The M.S. degree in Mathematics can also serve as preparation for advanced study toward a Ph.D. degree in mathematics or a related field.

Our program features small classes that allow for close contact between students and faculty. Many graduate classes are offered in the late afternoon or early evening, making it possible for working students to attend. Courses toward the M.S. degree may also be taken during the summer quarter. Students may begin their studies in any one of the four quarters.

Students interested in the M.S. degree program in Mathematics should speak with the Mathematics Graduate Coordinator.

Student Learning Outcomes

Students who graduate with an M.S. in Mathematics will be able to:

1. apply the fundamental definitions and theorems of pure mathematics;
2. apply the fundamental definitions and theorems of applied mathematics;
3. apply advanced techniques of mathematical analysis;
4. apply techniques of advanced algebra;
5. apply advanced techniques of geometry and topology;
6. use mathematical algorithms.

Career Opportunities

A number of former Cal State East Bay students currently hold positions as community college mathematics teachers. Others have found the M.S. degree in mathematics to be an ideal preparation for further studies at doctorate-granting institutions and have continued by working towards a Ph.D. degree in mathematics or a related field such as operations research, physics, or economics. A number of these alumni are now professors at four-year institutions. Still others are in mathematics-related careers in industry.

Faculty

The faculty of the Mathematics Department hold doctorates in a wide variety of areas of specialization and offer courses encompassing a broad range of pure and applied mathematics, including standard graduate mathematics courses as well as courses in new areas. Areas of emphasis include numerical analysis, pure and applied algebra, differential equations, real and complex analysis, topology, geometry, mathematical optimization, computer simulation, probability, statistics, and selected topics in applied mathematics.

Special Features

Each quarter, a limited number of teaching positions are available to qualified graduate students. These positions, which generally involve teaching one lower division mathematics course per quarter, provide valuable experience, especially for those who intend to become community college teachers. The department also employs qualified students as paper graders.

Mathematics students have access to modern computer equipment, including various mathematical software packages.

The CSUEB Mathematics Club is open to all interested students. This club features lectures by students and faculty and offers a variety of social activities.

Scholarships

Each year the department awards a number of scholarships for the subsequent year. Scholarship applications may be obtained from the department office during the winter quarter.

Admission

To enter the program with "Classified Graduate" status, a student must have completed a course in computer science and at least 36 quarter units of acceptable upper division mathematics, statistics, or computer science courses with a grade point average of "B" or higher. Included among these units must be courses in:

- Analysis
- Abstract algebra
- Linear algebra theory
- Differential equations

A student may enter the program with "Conditionally Classified Graduate" status while making up course or grade point deficiencies. Units taken to meet course deficiencies may not be applied toward the master's degree, and no more than 20 quarter units taken while in "Conditionally Classified Graduate" status may be applied to the degree.

A "Conditionally Classified Graduate" student who has no course deficiencies, a "B" or higher average in at least 12 quarter units of post baccalaureate study, and has satisfied the University Writing Skills Requirement, should petition the department graduate coordinator for a change to "Classified Graduate" status.

Advancement to Candidacy

A student with "Classified Graduate" status may apply for Advancement to Candidacy after completing at least 16 quarter units towards the master's degree with a "B" or higher average, including at least two 6000-level mathematics courses with a "B" or higher average.

Before being Advanced to Candidacy, a student's complete course of study must be approved by the Mathematics Graduate Studies Committee. In particular, approval must be obtained for any course(s) taken outside the Mathematics Department.

Upper Division Mathematics, Computer Science, and Statistics Courses Acceptable for M.S. in Mathematics

- Upper division and graduate computer science courses may be used with the approval of the Mathematics Graduate Studies Committee.
- Other upper division mathematics courses may be used with the approval of the Mathematics Graduate Studies Committee. MATH 4012, MATH 4013, MATH 4014, or MATH 4030 will not be approved.
- STAT 3401 - Introduction to Probability Theory I *Units: 4*
- STAT 3402 - Introduction to Probability Theory II *Units: 4*
- STAT 3502 - Statistical Inference I *Units: 4*
- STAT 3503 - Statistical Inference II *Units: 4*
- STAT 4401 - Introduction to Stochastic Processes *Units: 4*

Option Requirements (45 units)

To complete the M.S. in Mathematics students must pursue one (1) of the three options available: (*See the Errata chapter of this catalog for minor changes to this section*)

- Mathematics, Applied Mathematics Option, M.S. emphasizes coursework drawn from fundamental branches of mathematics: algebra, topology, and real and complex analysis
- Mathematics, Mathematics Teaching Option, M.S. is intended for those who hold secondary teaching credentials and who intend to pursue a career in secondary education
- Mathematics, Pure Mathematics Option, M.S. is designed to expose students to various aspects of applied mathematics, while allowing some coursework in "pure" mathematics as well. Students who intend to become community college teachers or go on to further graduate study should select Applied Mathematics or Pure Mathematics options.

Applied Mathematics Option

The following departmental requirements must be satisfied:

Prerequisites (16 units)

The following four courses (or their equivalents) must be completed, either as an undergraduate or as a graduate student:

- MATH 3301 - Analysis II *Units: 4*
- MATH 3401 Introduction to Probability Theory I *Units: 4*
- MATH 3750 - Numerical Analysis I *Units: 4*
- MATH 3841 - Linear Programming *Units: 4*

Mathematics Electives (8 units)

At least two (2) of the following courses are required:

- MATH 6100 - Applied Algebra *Units: 4*
- MATH 6331 - Topics in Differential Equations *Units: 4*
- MATH 6401 - Advanced Probability I *Units: 4*
- MATH 6750 - Topics in Advanced Numerical Analysis *Units: 4*
- MATH 6870 - Computer Simulation *Units: 4*

Other Electives (22.5 units)

Complete at least 22.5 quarter units of 6000 level courses from approved areas (of which at least 18 must be mathematics courses). Credit will be given for the seven MATH courses (MATH 6015-MATH 6065, and MATH 6899), only with the permission of the Mathematics Graduate Committee.

Capstone (0 units)

A comprehensive examination must be passed. Details are available in the department office.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Mathematics, Mathematics Teaching Option, M.S.

Department & Faculty Information

Mathematics (M.S.) 45 units

Program Description

The Mathematics Department offers graduate study leading to the degree of Master of Science in Mathematics. The goal of the faculty is to provide excellent instruction in advanced mathematics and to maintain a supportive environment for graduate students. Students who complete the program should be equipped for careers in community college teaching or positions in industry that require knowledge of mathematics beyond the undergraduate level. The M.S. degree in Mathematics can also serve as preparation for advanced study toward a Ph.D. degree in mathematics or a related field.

Our program features small classes that allow for close contact between students and faculty. Many graduate classes are offered in the late afternoon or early evening, making it possible for working students to attend. Courses toward the M.S. degree may also be taken during the summer quarter. Students may begin their studies in any one of the four quarters.

Students interested in the M.S. degree program in Mathematics should speak with the Mathematics Graduate Coordinator.

Student Learning Outcomes

Students who graduate with an M.S. in Mathematics will be able to:

1. apply the fundamental definitions and theorems of pure mathematics;
2. apply the fundamental definitions and theorems of applied mathematics;
3. apply advanced techniques of mathematical analysis;
4. apply techniques of advanced algebra;
5. apply advanced techniques of geometry and topology;
6. use mathematical algorithms.

Career Opportunities

A number of former Cal State East Bay students currently hold positions as community college mathematics teachers. Others have found the M.S. degree in mathematics to be an ideal preparation for further studies at doctorate-granting institutions and have continued by working towards a Ph.D. degree in mathematics or a related field such as operations research, physics, or economics. A number of these alumni are now professors at four-year institutions. Still others are in mathematics-related careers in industry.

Faculty

The faculty of the Mathematics Department hold doctorates in a wide variety of areas of specialization and offer courses encompassing a broad range of pure and applied mathematics, including standard graduate mathematics courses as well as courses in new areas. Areas of emphasis include numerical analysis, pure and applied algebra, differential equations, real and complex analysis, topology, geometry, mathematical optimization, computer simulation, probability, statistics, and selected topics in applied mathematics.

Special Features

Each quarter, a limited number of teaching positions are available to qualified graduate students. These positions, which generally involve teaching one lower division mathematics course per quarter, provide valuable experience, especially for those who intend to become community college teachers. The department also employs qualified students as paper graders.

Mathematics students have access to modern computer equipment, including various mathematical software packages.

The CSUEB Mathematics Club is open to all interested students. This club features lectures by students and faculty and offers a variety of social activities.

Scholarships

Each year the department awards a number of scholarships for the subsequent year. Scholarship applications may be obtained from the department office during the winter quarter.

Admission

To enter the program with "Classified Graduate" status, a student must have completed a course in computer science and at least 36 quarter units of acceptable upper division mathematics, statistics, or computer science courses with a grade point average of "B" or higher. Included among these units must be courses in:

- Analysis
- Abstract algebra
- Linear algebra theory
- Differential equations

A student may enter the program with "Conditionally Classified Graduate" status while making up course or grade point deficiencies. Units taken to meet course deficiencies may not be applied toward the master's degree, and no more than 20 quarter units taken while in "Conditionally Classified Graduate" status may be applied to the degree.

A "Conditionally Classified Graduate" student who has no course deficiencies, a "B" or higher average in at least 12 quarter units of post baccalaureate study, and has satisfied the University Writing Skills Requirement, should petition the department graduate coordinator for a change to "Classified Graduate" status.

Advancement to Candidacy

A student with "Classified Graduate" status may apply for Advancement to Candidacy after completing at least 16 quarter units towards the master's degree with a "B" or higher average, including at least two 6000-level mathematics courses with a "B" or higher average.

Before being Advanced to Candidacy, a student's complete course of study must be approved by the Mathematics Graduate Studies Committee. In particular, approval must be obtained for any course(s) taken outside the Mathematics Department.

Upper Division Mathematics, Computer Science, and Statistics Courses Acceptable for M.S. in Mathematics

- Upper division and graduate computer science courses may be used with the approval of the Mathematics Graduate Studies Committee.
- Other upper division mathematics courses may be used with the approval of the Mathematics Graduate Studies Committee. MATH 4012, MATH 4013, MATH 4014, or MATH 4030 will not be approved.
- STAT 3401 - Introduction to Probability Theory I *Units: 4*
- STAT 3402 - Introduction to Probability Theory II *Units: 4*
- STAT 3502 - Statistical Inference I *Units: 4*
- STAT 3503 - Statistical Inference II *Units: 4*
- STAT 4401 - Introduction to Stochastic Processes *Units: 4*

Option Requirements (45 units)

To complete the M.S. in Mathematics students must pursue one (1) of the three options available: (*See the Errata chapter of this catalog for minor changes to this section*)

- Mathematics, Applied Mathematics Option, M.S. emphasizes coursework drawn from fundamental branches of mathematics: algebra, topology, and real and complex analysis
 - Mathematics, Mathematics Teaching Option, M.S. is intended for those who hold secondary teaching credentials and who intend to pursue a career in secondary education
 - Mathematics, Pure Mathematics Option, M.S. is designed to expose students to various aspects of applied mathematics, while allowing some coursework in "pure" mathematics as well.
- Students who intend to become community college teachers or go on to further graduate study should select Applied Mathematics or Pure Mathematics options.

Mathematics Teaching Option

The M.A.T.H. (Mathematics and Teaching at Hayward) option is available only to holders of teaching credentials, unless special permission is obtained. In order to be admitted to the master's degree program with "Classified Graduate" status, a student must have completed 24 or more quarter units of acceptable upper division mathematics with an average of "B" or higher. A student may be admitted to the program with "Conditionally Classified Graduate" status while making up course or grade point deficiencies. Units taken to meet any course deficiencies may not be applied toward the master's degree, and no more than 20 quarter units taken while in "Conditionally Classified Graduate" status may be applied to the degree. A "Conditionally Classified Graduate" student who has no course deficiencies, a "B" or higher average in at least 12 quarter units of post-baccalaureate study, and has satisfied the University Writing Skills requirement, should petition the graduate coordinator for admission to the master's degree program with "Classified Graduate" status.

M.A.T.H. Core Courses (24 units)

The following departmental requirements for the M.S. degree are in addition to the general University requirements:

- MATH 6015 - Algebra for Teachers *Units: 4*
- MATH 6025 - Geometry for Teachers *Units: 4*
- MATH 6035 - Analysis for Teachers *Units: 4*
- MATH 6045 - Mathematics in the Sciences *Units: 4*
- MATH 6055 - Discrete Mathematics *Units: 4*
- MATH 6065 - Connections in Mathematics *Units: 4*

Teacher Education Courses (8 units)

Select two (2) Teacher Education courses from the following:

- TED 6010 - Seminar in Teaching and Learning Mathematics *Units: 4*
- TED 6021 - Seminar in Diagnosis and Treatment of Learning Difficulties in Mathematics *Units: 4*
- TED 6040 - Advanced Curriculum and Instruction in Mathematics *Units: 4*

Electives (8-12 units)

- One upper division or graduate-level course offered by the Statistics Department and approved by the Math Graduate Coordinator (4 units)
- One or two upper division or graduate electives approved by the Math Graduate Coordinator (4-8 units)

Capstone Requirement (1-5 units)

In consultation with and approval from the Math Graduate Coordinator, complete a capstone project for 1-5 units.

- MATH 6899 - Project *Units: 1-5*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Mathematics, Pure Mathematics Option, M.S.

Department & Faculty Information

Mathematics (M.S.) 45 units

Program Description

The Mathematics Department offers graduate study leading to the degree of Master of Science in Mathematics. The goal of the faculty is to provide excellent instruction in advanced mathematics and to maintain a supportive environment for graduate students. Students who complete the program should be equipped for careers in community college teaching or positions in industry that require knowledge of mathematics beyond the undergraduate level. The M.S. degree in Mathematics can also serve as preparation for advanced study toward a Ph.D. degree in mathematics or a related field.

Our program features small classes that allow for close contact between students and faculty. Many graduate classes are offered in the late afternoon or early evening, making it possible for working students to attend. Courses toward the M.S. degree may also be taken during the summer quarter. Students may begin their studies in any one of the four quarters.

Students interested in the M.S. degree program in Mathematics should speak with the Mathematics Graduate Coordinator.

Student Learning Outcomes

Students who graduate with an M.S. in Mathematics will be able to:

1. apply the fundamental definitions and theorems of pure mathematics;
2. apply the fundamental definitions and theorems of applied mathematics;
3. apply advanced techniques of mathematical analysis;
4. apply techniques of advanced algebra;
5. apply advanced techniques of geometry and topology;
6. use mathematical algorithms.

Career Opportunities

A number of former Cal State East Bay students currently hold positions as community college mathematics teachers. Others have found the M.S. degree in mathematics to be an ideal preparation for further studies at doctorate-granting institutions and have continued by working towards a Ph.D. degree in mathematics or a related field such as operations research, physics, or economics. A number of these alumni are now professors at four-year institutions. Still others are in mathematics-related careers in industry.

Faculty

The faculty of the Mathematics Department hold doctorates in a wide variety of areas of specialization and offer courses encompassing a broad range of pure and applied mathematics, including standard graduate mathematics courses as well as courses in new areas. Areas of emphasis include numerical analysis, pure and applied algebra, differential equations, real and complex analysis, topology, geometry, mathematical optimization, computer simulation, probability, statistics, and selected topics in applied mathematics.

Special Features

Each quarter, a limited number of teaching positions are available to qualified graduate students. These positions, which generally involve teaching one lower division mathematics course per quarter, provide valuable experience, especially for those who intend to become community college teachers. The department also employs qualified students as paper graders.

Mathematics students have access to modern computer equipment, including various mathematical software packages.

The CSUEB Mathematics Club is open to all interested students. This club features lectures by students and faculty and offers a variety of social activities.

Scholarships

Each year the department awards a number of scholarships for the subsequent year. Scholarship applications may be obtained from the department office during the winter quarter.

Admission

To enter the program with "Classified Graduate" status, a student must have completed a course in computer science and at least 36 quarter units of acceptable upper division mathematics, statistics, or computer science courses with a grade point average of "B" or higher. Included among these units must be courses in:

- Analysis
- Abstract algebra
- Linear algebra theory
- Differential equations

A student may enter the program with "Conditionally Classified Graduate" status while making up course or grade point deficiencies. Units taken to meet course deficiencies may not be applied toward the master's degree, and no more than 20 quarter units taken while in "Conditionally Classified Graduate" status may be applied to the degree.

A "Conditionally Classified Graduate" student who has no course deficiencies, a "B" or higher average in at least 12 quarter units of post baccalaureate study, and has satisfied the University Writing Skills Requirement, should petition the department graduate coordinator for a change to "Classified Graduate" status.

Advancement to Candidacy

A student with "Classified Graduate" status may apply for Advancement to Candidacy after completing at least 16 quarter units towards the master's degree with a "B" or higher average, including at least two 6000-level mathematics courses with a "B" or higher average.

Before being Advanced to Candidacy, a student's complete course of study must be approved by the Mathematics Graduate Studies Committee. In particular, approval must be obtained for any course(s) taken outside the Mathematics Department.

Upper Division Mathematics, Computer Science, and Statistics Courses Acceptable for M.S. in Mathematics

- Upper division and graduate computer science courses may be used with the approval of the Mathematics Graduate Studies Committee.
- Other upper division mathematics courses may be used with the approval of the Mathematics Graduate Studies Committee. MATH 4012, MATH 4013, MATH 4014, or MATH 4030 will not be approved.
- STAT 3401 - Introduction to Probability Theory I *Units: 4*
- STAT 3402 - Introduction to Probability Theory II *Units: 4*
- STAT 3502 - Statistical Inference I *Units: 4*
- STAT 3503 - Statistical Inference II *Units: 4*
- STAT 4401 - Introduction to Stochastic Processes *Units: 4*

Option Requirements (45 units)

To complete the M.S. in Mathematics students must pursue one (1) of the three options available: (*See the Errata chapter of this catalog for minor changes to this section*)

- Mathematics, Applied Mathematics Option, M.S. emphasizes coursework drawn from fundamental branches of mathematics: algebra, topology, and real and complex analysis

- Mathematics, Mathematics Teaching Option, M.S. is intended for those who hold secondary teaching credentials and who intend to pursue a career in secondary education
- Mathematics, Pure Mathematics Option, M.S. is designed to expose students to various aspects of applied mathematics, while allowing some coursework in "pure" mathematics as well. Students who intend to become community college teachers or go on to further graduate study should select Applied Mathematics or Pure Mathematics options.

Pure Mathematics Option

The following departmental requirements must be satisfied:

Prerequisites (16 units)

The following four courses (or their equivalents) must be completed, either as an undergraduate or as a graduate student:

- MATH 4121 - Advanced Algebra *Units: 4*
- MATH 4340 - Introduction to Complex Variables *Units: 4*
- MATH 4350 - Theory of Functions of a Real Variable *Units: 4*
- MATH 4360 - Introduction to Topology *Units: 4*

Mathematics Electives (8 units)

At least two (2) of the following four courses:

- MATH 6121 - Topics in Advanced Algebra I *Units: 4*
- MATH 6201 - Topology *Units: 4*
- MATH 6340 - Complex Analysis *Units: 4*
- MATH 6350 - Real Analysis *Units: 4*

Other Electives (24 units)

At least 24 quarter units of 6000-level courses, of which at least 20 quarter units are mathematics courses. Credit will be given for the seven M.A.T.H. courses (MATH 6015-MATH 6065, and MATH 6899), only with the permission of the Mathematics Graduate Committee.

Capstone Requirement (0 units)

A comprehensive examination must be passed. Details are available in the department office and on the department website

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Mathematics Minor

Department & Faculty Information

Minor Requirements (28 units)

The minor consists of 28 units.

Required courses:

- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2304 - Calculus III *Units: 4*
- MATH 3000 - Introduction to Abstract Mathematics and Proofs *Units: 4*

One course from the following list:

- MATH 3100 - Linear Algebra *Units: 4*
- MATH 3121 - Abstract Algebra I *Units: 4*
- MATH 3215 - Geometry I *Units: 4*
- MATH 3300 - Analysis I *Units: 4*
- MATH 3331 - Differential Equations *Units: 4*

One 4-unit

One 4-unit course which may include any upper division mathematics courses not already taken for the minor.

Or

or STAT 3401, STAT 3502 or CS 4170, CS 4245 (but not MATH 4012, MATH 4013, MATH 4014, MATH 4030).

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Certificate (Undergraduate) Program

Foundational Mathematics Teaching Certificate

Department & Faculty Information

The Foundational Mathematics certificate program is designed for students who would like to teach middle school math or would like to become K-8 math specialists. Credentialed teachers who complete this program and pass the Math CSET I and II exams qualify for the Foundational level Added Authorization in Mathematics.

Candidate for this program should have or plan to obtain their Multiple Subjects teaching credential or a Single Subject teaching credential in a subject other than mathematics. Students who complete this program will be well prepared to teach mathematics at the K-8 level, will have completed the State required Methods Courses in Single Subject Mathematics and will have the content knowledge required to pass the Math CSET I and II exams.

The certificate consists of 21 units.

Prerequisite:

- MATH 2011 - Number Systems *Units: 4*

Required Courses (21 units):

- MATH 1130 - College Algebra *Units: 4*
- MATH 4012 - Geometry and Measurement *Units: 4*
- MATH 4013 - Statistics, Data Analysis, and Probability *Units: 4*
- MATH 4030 - Advanced Study of School Mathematics *Units: 4*

Note:

Students who complete the Foundational Mathematics Teaching Certificate program will still need to pass the first two math CSET exams to establish subject matter competency for the credential.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Department of Modern Languages and Literatures

The Department Office is located in the Music and Business building, Room 2599

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept. Phone: (510) 885-3211

Faculty

Professor Emerita

L. Iliana Holbrook, Ph.D. University of California, Davis

Professor

Meiling Wu (Chair), Ph.D. State University of New York at Binghamton

Associate Professors

Marcelo Paz, Ph.D. University of Cincinnati

Jesús Díaz-Caballero, Ph.D. University of Pittsburgh

Amy June Rowley, Ph.D. University of Wisconsin- Milwaukee

Monique Manopoulos, Ph.D. University of Iowa

Lecturers

Juergen Hahn, Ph.D. Duke University

Shiori Hoke-Greller, M.A. San Francisco State University

David Fair, MDiv. Gateway Seminary

Huitzu Lu, Ph.D. University of Arizona

Gaelle Corvaisier, Ph.D. University La Sorbonne, Paris-France

Rie Hannon, M.A. Texas Tech University

Nancy Shuguli, M.A. Sonoma State University

Maria Del Mar Thomas, M.A. New Mexico State University

American Sign Language Coordinator: Amy June Rowley

Chinese & Japanese Coordinator: Meiling Wu

French Coordinator: Monique Manopoulos

Spanish Coordinator: Marcelo Paz

Department Statement

The Department of Modern Languages and Literatures (MLL) offers diverse courses in language, literature, cinema, culture. The rich array of courses are in American Sign Language, Chinese, French, Japanese, Spanish, and in English. The study leads to a Bachelor of Arts degree with majors in French and Spanish; Academic minors are available in American Sign Language, Chinese Language and Cultural Studies, French, Japanese, and Spanish. Students may utilize all languages and literatures courses offered in the department as part of a special major in various areas of study. The department faculty come from a wide variety of national and academic backgrounds and have traveled extensively in the countries whose languages they are teaching. Professors have lectured and published extensively in the United States, Asia, Europe and Latin America.

Language Laboratory

Currently, the Department of Modern Languages and Literatures does not have a language laboratory; however, the University Library has audio and video tape collections of instructional programs in the languages currently taught, including American Sign Language. This temporary facility is located at Media, Resources and Reserves in the library.

Placement	Beyond the Classroom
School of Global Humanities and Cultural Studies	

Bachelor of Arts

French, B.A.

Department & Faculty Information

French (B.A.) 180 units

Program Description

The Department of Modern Languages and Literatures at Cal State East Bay offers courses of study leading to a Bachelor of Arts degree with majors in:

- French, B.A.
- Spanish, B.A.

Academic Minors are offered in:

- French Minor
- German Minor
- Italian Minor
- American Sign Language Minor
- Spanish Minor
- Chinese Language and Cultural Studies Minor

Elementary courses are offered also in Japanese that will be counted for future Japanese Language and Cultural Studies Minor in the semester system. All programs have been designed to provide students with the cultural understanding and the academic knowledge necessary for future pursuits in the teaching of foreign languages and literatures, for graduate work in the same fields, or for professional interpreter careers. Students may utilize other languages, literatures, and cultural study courses offered in the department as part of a Special Major in various area studies.

With the growing involvement of the United States in international business, the increasingly multicultural character of American society itself, and the approval of the California Non-English Languages Allowed in Public Education Act (Senate Bill 1174), also known as Proposition 58, the importance of foreign languages in nearly every kind of occupation is considerable. The majors and minors in modern languages, cultures, and literatures, therefore, may lead to teaching and interpretation careers and represent direct, practical assets in other fields such as business, industry and commerce, civil service, law, library science, media, science, health services, social work, travel, and tourism.

Student Learning Outcomes

Students graduating with a French, B.A. or a Spanish, B.A. from Cal State East Bay will be able to:

1. express themselves with sufficient accuracy and clarity to carry on conversations in French or Spanish with native speakers and to give oral presentations appropriate to the Undergraduate level;
2. express themselves in the written language with a fair amount of sophistication, integrate research information into written assignments, giving adequate credit to the sources of information used, demonstrate critical and creative thinking while applying analytical and qualitative reasoning to address complex challenges and everyday problems
3. be familiar with the major writers, periods, and genres of French literature (France and other French speaking regions throughout the world: Africa, The Caribbean, Canada, Belgium and Switzerland) or, Spanish and/or Spanish American literature (Spain, Mexico, Central America, the Caribbean, South America, and other Spanish speaking regions throughout the world). Students should be able to relate the works and genres to the socio-historical context in which they developed; and
4. demonstrate that they have acquired knowledge of the cultural diversity of literatures in the French or Spanish-speaking world while developing an appreciation of the French or Spanish (and/or Spanish American) cultural contributions to the body of universal culture such as literature, art, music, cinema, and history.

Career Opportunities

- Teaching
- Business
- Industry and Commerce
- Law and Law Enforcement
- Library Science
- Mass Communication
- Health and Social Services
- Travel and Tourism
- Translation and Interpretation
- Government Service

Features

The department faculty come from a wide variety of national and academic backgrounds and have traveled extensively in the countries those languages they are teaching. Slides, films, dramatic performances, potluck dinners and other activities provide the opportunity for students to interact with one another and with their professors. For those who wish to further their interest in a foreign culture and language, the Department of Modern Languages and Literatures offers clubs. Foreign Language Clubs include the Chinese Cultural Club, French Club, the Japanese Cultural Club, and the Spanish Language Club.

For those who wish to accelerate their learning of another language, the department offers a summer quarter intensive program in Spanish which covers one year's work in one summer quarter. Both Chinese and Japanese programs offer elementary level intensive online courses. The Blackboard Language Lab is another useful feature of the department. In the Blackboard Language Lab students can listen to audio files or connect to online streaming which help to improve their pronunciation, fluency, and comprehension. In addition, students are encouraged to take advantage of the CSU International Programs. They can take courses in a variety of universities abroad and apply them towards a degree at Cal State East Bay. The department language programs support the prerequisite language requirements for CSU IP programs in Chile, China, France, Japan, Mexico, Spain, and Taiwan. More information see: <https://csuip.calstate.edu/index.cfm?FuseAction=Abroad.Home>

Preparation

For students to enroll at the proper level of language instruction, the department recommends the following guideline: one year of high school foreign language instruction equals one quarter of Cal State East Bay instruction. Students are expected not to repeat credit already earned in high school unless significant time has passed since the initial instruction. The department offers placement exams to facilitate student placement. Students should contact the department before enrolling in a lower division language class.

Students in foreign language majors, minors, and options may have lower division language requirements waived for those courses below the level at which they enroll.

Advanced Placement

A student who has successfully completed the advanced placement course in a foreign language or literature in high school and has a score of 3 or better on the Advanced Placement Examination will receive 8-12 units of credit equivalent to two or three courses of a foreign language as listed below.

If you have completed the French Language examination with a score of 3 or better, you will receive 12 units of credit equivalent to MLL 1101, MLL 1102, and MLL 1103. If you have completed the Spanish Language examination with a score of 3 or better, you will receive 12 units of credit equivalent to MLL 1401, MLL 1402, and MLL 1403. If you have completed the Spanish Literature examination with a score of 3 or better, you will receive 8 units of credit equivalent to MLL 3411 and MLL 4455.

Major Requirements (B.A.) 44-68 units

The B.A. degree requires a total of 180 units.

- The core major consists of 44-68 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Acquisition of a reading knowledge in a second foreign language is strongly recommended.

Lower Division Core (0-24 units)

Note: Lower division requirements will be waived for students with prior knowledge of the language. See the "Advanced Placement" section above.

- MLL 1101 - Elementary French I *Units: 4*
- MLL 1102 - Elementary French II *Units: 4*
- MLL 1103 - Elementary French III *Units: 4*
- MLL 2101 - Intermediate French I *Units: 4*
- MLL 2102 - Intermediate French II *Units: 4*
- MLL 2103 - Intermediate French III *Units: 4*

Upper Division Core (44 units)

The following units are required:

- MLL 3130 - Francophone Culture and Civilization through Cinema *Units: 4*
- **Eight (8) units of French Composition and Advanced Composition**
With the consent of the Department, choose 8 units of upper division French Composition and Advanced Composition courses.
- **Thirty-two (32) units of Upper Division French courses**
Choose 32 units from among the other upper division French courses.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth

requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Spanish, B.A.

Department & Faculty Information

Spanish (B.A.) 180 units

Program Description

The Department of Modern Languages and Literatures at Cal State East Bay offers courses of study leading to a Bachelor of Arts degree with majors in:

- French, B.A.
- Spanish, B.A.

Academic Minors are offered in:

- French Minor
- German Minor
- Italian Minor
- American Sign Language Minor
- Spanish Minor
- Chinese Language and Cultural Studies Minor

Elementary courses are offered also in Japanese that will be counted for future Japanese Language and Cultural Studies Minor in the semester system. All programs have been designed to provide students with the cultural understanding and the academic knowledge necessary for future pursuits in the teaching of foreign languages and literatures, for graduate work in the same fields, or for professional interpreter careers. Students may utilize other languages, literatures, and cultural study courses offered in the department as part of a Special Major in various area studies.

With the growing involvement of the United States in international business, the increasingly multicultural character of American society itself, and the approval of the California Non-English Languages Allowed in Public Education Act (Senate Bill 1174), also known as Proposition 58, the importance of foreign languages in nearly every kind of occupation is considerable. The majors and minors in modern languages, cultures, and literatures, therefore, may lead to teaching and interpretation careers and represent direct, practical assets in other fields such as business, industry and commerce, civil service, law, library science, media, science, health services, social work, travel, and tourism.

Student Learning Outcomes

Students graduating with a French, B.A. or a Spanish, B.A. from Cal State East Bay will be able to:

1. express themselves with sufficient accuracy and clarity to carry on conversations in French or Spanish with native speakers and to give oral presentations appropriate to the Undergraduate level;
2. express themselves in the written language with a fair amount of sophistication, integrate research information into written assignments, giving adequate credit to the sources of information used,

demonstrate critical and creative thinking while applying analytical and qualitative reasoning to address complex challenges and everyday problems

3. be familiar with the major writers, periods, and genres of French literature (France and other French speaking regions throughout the world: Africa, The Caribbean, Canada, Belgium and Switzerland) or, Spanish and/or Spanish American literature (Spain, Mexico, Central America, the Caribbean, South America, and other Spanish speaking regions throughout the world). Students should be able to relate the works and genres to the socio-historical context in which they developed; and
4. demonstrate that they have acquired knowledge of the cultural diversity of literatures in the French or Spanish-speaking world while developing an appreciation of the French or Spanish (and/or Spanish American) cultural contributions to the body of universal culture such as literature, art, music, cinema, and history.

Career Opportunities

- Teaching
- Business
- Industry and Commerce
- Law and Law Enforcement
- Library Science
- Mass Communication
- Health and Social Services
- Travel and Tourism
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- Government Service

Features

The department faculty come from a wide variety of national and academic backgrounds and have traveled extensively in the countries those languages they are teaching. Slides, films, dramatic performances, potluck dinners and other activities provide the opportunity for students to interact with one another and with their professors. For those who wish to further their interest in a foreign culture and language, the Department of Modern Languages and Literatures offers clubs. Foreign Language Clubs include the Chinese Cultural Club, French Club, the Japanese Cultural Club, and the Spanish Language Club.

For those who wish to accelerate their learning of another language, the department offers a summer quarter intensive program in Spanish which covers one year's work in one summer quarter. Both Chinese and Japanese programs offer elementary level intensive online courses. The Blackboard Language Lab is another useful feature of the department. In the Blackboard Language Lab students can listen to audio files or connect to online streaming which help to improve their pronunciation, fluency, and comprehension. In addition, students are encouraged to take advantage of the CSU International Programs. They can take courses in a variety of universities abroad and apply them towards a degree at Cal State East Bay. The department language programs support the prerequisite language requirements for CSU IP programs in Chile, China, France, Japan, Mexico, Spain, and Taiwan. More information see: <https://csuip.calstate.edu/index.cfm?FuseAction=Abroad.Home>

Preparation

For students to enroll at the proper level of language instruction, the department recommends the following guideline: one year of high school foreign language instruction equals one quarter of Cal State

East Bay instruction. Students are expected not to repeat credit already earned in high school unless significant time has passed since the initial instruction. The department offers placement exams to facilitate student placement. Students should contact the department before enrolling in a lower division language class.

Students in foreign language majors, minors, and options may have lower division language requirements waived for those courses below the level at which they enroll.

Advanced Placement

A student who has successfully completed the advanced placement course in a foreign language or literature in high school and has a score of 3 or better on the Advanced Placement Examination will receive 8-12 units of credit equivalent to two or three courses of a foreign language as listed below.

If you have completed the French Language examination with a score of 3 or better, you will receive 12 units of credit equivalent to MLL 1101, MLL 1102, and MLL 1103. If you have completed the Spanish Language examination with a score of 3 or better, you will receive 12 units of credit equivalent to MLL 1401, MLL 1402, and MLL 1403. If you have completed the Spanish Literature examination with a score of 3 or better, you will receive 8 units of credit equivalent to MLL 3411 and MLL 4455.

Major Requirements (B.A.) 44-72 units

The B.A. degree requires a total of 180 units.

- The core major consists of 44-72 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Students are expected to consult with Spanish division advisors in order to assure a well balanced program of upper division courses. Proficiency in another foreign language is strongly recommended.

Lower Division Core (0-28 units)

Note: Lower division requirements will be waived for students with prior knowledge of the language. See the "Advanced Placement" section above.

- MLL 1401 - Elementary Spanish I *Units: 4*
- MLL 1402 - Elementary Spanish II *Units: 4*
- MLL 1403 - Elementary Spanish III *Units: 4*
- MLL 2401 - Intermediate Spanish I *Units: 4*
- MLL 2402 - Intermediate Spanish II *Units: 4*
- MLL 2403 - Intermediate Spanish III *Units: 4*
- MLL 2410 - Spanish Conversation *Units: 4*

Upper Division Core (44 units)

The following are required:

- MLL 3401 - Advanced Spanish Composition and Syntax, I *Units: 4*

- MLL 3402 - Advanced Spanish Composition and Syntax, II *Units: 4*
- MLL 3403 - Advanced Spanish Composition and Syntax, III *Units: 4*
- MLL 3411 - Introduction to Spanish Linguistics *Units: 4*

Eight (8) units of Spanish American Literature Required

Choose from the following courses:

- MLL 3461 - Introduction to Spanish-American Literature: 1492 to 1900 *Units: 4*
- MLL 3463 - Introduction to Spanish-American Literature: 1900 to the Present *Units: 4*
- MLL 3495 - Spanish-American Culture and Civilization *Units: 4*
- MLL 4495 - A Single Movement, Country or Theme: Spanish American Literature *Units: 4*

Eight (8) units of Spanish Peninsular Literature Required

Choose from the following:

- MLL 4455 - Studies in the Golden Age of Spain *Units: 4*
- MLL 4460 - Studies in 20th Century Spanish Literature *Units: 4*

Twelve (12) Elective Upper Division Spanish Required

Choose 12 additional units from among all upper division Spanish courses. Courses numbered MLL 4455, MLL 4460, and MLL 4495 may be repeated as content changes. If repeated, the courses may be applied to the Spanish American Literature area, the Spanish Peninsular Literature area or the Elective Upper Division Spanish area.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

Chinese Language and Cultural Studies Minor

Department & Faculty Information

Minor Requirements (32 units)

The minor consists of 32 units.

I. Required Courses (28 units):

1. Lower Division (12 units)

Note: Students who do not have proficiency at the intermediate level will need to take the first year of Mandarin Chinese: MLL 1601, MLL 1602, MLL 1603 (Elementary Chinese I, II, III) before starting the Intermediate Mandarin Chinese course series. This could add up to 12 additional units to the minor.

- MLL 2601 - Intermediate Mandarin Chinese I *Units: 4*
- MLL 2602 - Intermediate Mandarin Chinese II *Units: 4*
- MLL 2603 - Intermediate Mandarin Chinese III *Units: 4*

2. Upper Division (16 units)

Select four courses from the list below. At least two of the four courses must have the MLL prefix.

- ANTH 3545 - China *Units: 4*
- HIST 3311 - Traditional China *Units: 4*
- HIST 3312 - Modern China *Units: 4*
- HIST 3313 - People's Republic of China *Units: 4*
- MLL 3601 - Advanced Reading, Composition and Translation *Units: 4*
- MLL 3602 - Modern Chinese Literature, Linguistics and Culture *Units: 4*
- MLL 3603 - Classical Chinese Literature, Rhetoric and Culture *Units: 4*
- MLL 3612 - Modern Chinese Short Stories *Units: 4*
- MLL 4900 - Independent Study *Units: 1-4*

II. Electives (4 units)

Select one course from the list below (with consent of advisor).

- ANTH 3800 - Language and Culture *Units: 4*
- ENGL 3005 - Study of Language *Units: 4*
- ENGL 3670 - Asian/Filipino American Literature *Units: 4*
- ES 3551 - Asian American Women and Men *Units: 4*
- ES 3555 - Asian American Family Patterns *Units: 4*
- FIN 4375 - International Business Finance *Units: 4*
- GEOG 3540 - China and Japan *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*
- MGMT 4670 - Multinational Business *Units: 4*
- MGMT 4675 - International Human Resources Management *Units: 4*
- MKTG 4470 - International Marketing *Units: 4*
- MKTG 4478 - International Business Projects *Units: 4*
- PHIL 3320 - Cultural Studies *Units: 4*
- PHIL 3403 - Religions of the East *Units: 4*
- POSC 3204 - Political Systems of Asia *Units: 4*
- POSC 3333 - Ethnic and Minority Politics *Units: 4*

- POSC 3418 - U.S. Immigration Policy and Law *Units: 4*
- POSC 3470 - International Law *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

French Minor

Department & Faculty Information

Advanced Placement

A student who has successfully completed the advanced placement course in a foreign language or literature in high school and has a score of 3 or better on the Advanced Placement Examination will receive 8-12 units of credit equivalent to two or three courses of a foreign language as listed below.

If you have completed the French Language examination with a score of 3 or better, you will receive 12 units of credit equivalent to MLL 2101, 2102, and 2103. If you have completed the German Language examination with a score of 3 or better, you will receive 12 units of credit equivalent to intermediate German coursework. If you have completed the Spanish Language examination with a score of 3 or better, you will receive 12 units of credit equivalent to MLL 2401, 2402, and 2403. If you have completed the Spanish Literature examination with a score of 3 or better, you will receive 8 units of credit equivalent to MLL 3400 and 4455.

Minor Requirements (20-44 units)

A. Lower Division (0-24 units)

- MLL 1101 - Elementary French I *Units: 4*
- MLL 1102 - Elementary French II *Units: 4*
- MLL 1103 - Elementary French III *Units: 4*
- MLL 2101 - Intermediate French I *Units: 4 or equivalent*
- MLL 2102 - Intermediate French II *Units: 4 or equivalent*
- MLL 2103 - Intermediate French III *Units: 4 or equivalent*

Note:

Lower division requirements will be waived for student with prior knowledge of the language. See the "Advanced Placement" section above.

B. Upper Division (20 units)

- Eight upper division units in French composition and advanced composition, with consent of Department (8)
- Any three other upper division French courses (12)

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

German Minor

Department & Faculty Information

Minor Requirements (24-36 units)

IMPORTANT NOTICE: The department is not accepting students into the German Minor at this time.

A. Lower Division

- MLL 1201 - Elementary German I *Units: 4*
- MLL 1202 - Elementary German II *Units: 4*
- MLL 1203 - Elementary German III *Units: 4*
- Twelve units of lower division coursework in Intermediate German, with consent of advisor *Units: 12*

Note:

Lower division requirements will be waived for student with prior knowledge of the language. See the "Advanced Placement" section above.

B. Upper Division

- Four units of upper division coursework in Advanced German, with consent of advisor *Units: 4*
- Eight units of upper division coursework in German studies, with consent of advisor *Units: 8*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Italian Minor

Department & Faculty Information

Minor Requirements (24-36 units)

IMPORTANT NOTICE: The department is not accepting students into the Italian Minor at this time.

A. Lower Division (12-24 units)

- MLL 1301 - Italian Culture and Language I *Units: 4*
- MLL 1302 - Italian Culture and Language II *Units: 4*
- MLL 1303 - Italian Culture and Language III *Units: 4*
- 12 units of intermediate Italian, with consent of advisor *Units: 12*

Note:

Lower division requirements will be waived for student with prior knowledge of the language. See the "Advanced Placement" section above.

B. Upper Division (12 units)

- Four units of upper division coursework in cultural trends in Italy *Units: 4*
- Four units of upper division coursework in contemporary spoken Italian, with consent of advisor *Units: 4*
- Four units of upper division coursework in Italian literature, with consent of advisor *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Sign Language Minor

Department & Faculty Information

Minor Requirements (24-36 units)

A. Lower Division (12-24 units)

- MLL 1901 - Elementary Sign Language I *Units: 4*
- MLL 1902 - Elementary Sign Language II *Units: 4*
- MLL 1903 - Elementary Sign Language III *Units: 4*
- MLL 2901 - Intermediate Sign Language I *Units: 4*
- MLL 2902 - Intermediate Sign Language II *Units: 4*
- MLL 2903 - Intermediate Sign Language III *Units: 4*

Note:

Lower division requirements will be waived for student with prior knowledge of the language. See the "Advanced Placement" section above.

B. Upper Division (12 units)

- MLL 3902 - Deaf Culture *Units: 4*
- MLL 3903 - Topics in American Sign Language *Units: 4*
- MLL 3904 - Sign Language: Field Work *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Spanish Minor

Department & Faculty Information

Minor Requirements (24-48 units)

A. Lower Division (0-24 units)

- MLL 1401 - Elementary Spanish I *Units: 4*
- MLL 1402 - Elementary Spanish II *Units: 4*
- MLL 1403 - Elementary Spanish III *Units: 4*
- MLL 2401 - Intermediate Spanish I *Units: 4*
- MLL 2402 - Intermediate Spanish II *Units: 4*
- MLL 2403 - Intermediate Spanish III *Units: 4*

Note:

A student who has successfully completed the advanced placement course in a foreign language or literature in high school and has a score of 3 or better on the Advanced Placement Examination will receive 8-12 units of credit equivalent to two or three courses of a foreign language as listed below. If you have completed the French Language examination with a score of 3 or better, you will receive 12 units of credit equivalent to MLL 2101, 2102, and 2103. If you have completed the German Language examination with a score of 3 or better, you will receive 12 units of credit equivalent to intermediate German coursework. If you have completed the Spanish Language examination with a score of 3 or better, you will receive 12 units of credit equivalent to MLL 2401, 2402, and 2403. If you have completed the Spanish Literature examination with a score of 3 or better, you will receive 8 units of credit equivalent to MLL 3400 and 4455.

B. Upper Division (16 units)

- MLL 3401 - Advanced Spanish Composition and Syntax, I *Units: 4*
- MLL 3402 - Advanced Spanish Composition and Syntax, II *Units: 4*
- MLL 3403 - Advanced Spanish Composition and Syntax, III *Units: 4*
- MLL 3411 - Introduction to Spanish Linguistics *Units: 4*

C. One course from each of the two following areas:

Spanish Peninsular literature:

- MLL 4455 - Studies in the Golden Age of Spain *Units: 4*
- MLL 4460 - Studies in 20th Century Spanish Literature *Units: 4*

Spanish-American literature:

- MLL 3461 - Introduction to Spanish-American Literature: 1492 to 1900 *Units: 4*

- MLL 3463 - Introduction to Spanish-American Literature: 1900 to the Present
Units: 4
- MLL 3495 - Spanish-American Culture and Civilization *Units: 4*
- MLL 4495 - A Single Movement, Country or Theme: Spanish American Literature
Units: 4
- MLL 3400 - Introduction to Literary Analysis *Units: 4* may replace one of the above required courses.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Certificate (Undergraduate) Program

Spanish for the Professions Certificate

Department & Faculty Information

IMPORTANT NOTICE: The department is not accepting students for the Certificate in Spanish program at this time.

The Certificate in Spanish for the Professions, consisting of 22-38 units, tells potential employers that the recipient is qualified to work with Spanish-speaking members of the community who have limited English proficiency. Designed for individuals who are, or will be, employed in courts, schools, social service bureaucracies, health care facilities, and business enterprises, the certificate program provides students with Spanish language competency in technical fields, enabling them to converse with and serve as translators and interpreters for Spanish-speaking clients. Students majoring or minoring in Spanish may obtain the certificate by completing only the three required upper division certificate courses, in addition to their major or minor program.

Required Courses (22-38 units)

A. Lower Division (0-24 units)

- MLL 1401 - Elementary Spanish I *Units: 4*
- MLL 1402 - Elementary Spanish II *Units: 4*
- MLL 1403 - Elementary Spanish III *Units: 4*
- MLL 2401 - Intermediate Spanish I *Units: 4*

- MLL 2402 - Intermediate Spanish II *Units: 4*
- MLL 2403 - Intermediate Spanish III *Units: 4*

B. Upper Division (14-22 units)

- MLL 3404 - Spanish Terminology and Translation *Units: 4*
- MLL 3405 - Advanced Conversation for Community Needs *Units: 4*
- MLL 3406 - Practical Spanish: Community Service *Units: 6*

Spanish language, and/or Spanish Peninsular or Spanish-American Literature and Culture

(4-8 units from the following list if needed to bring total units to a minimum of 22)

1. Spanish Language:

- MLL 3404 - Spanish Terminology and Translation *Units: 4*
- MLL 3405 - Advanced Conversation for Community Needs *Units: 4*

2. Spanish-American Literature and Culture:

- MLL 3400 - Introduction to Literary Analysis *Units: 4*
- MLL 3461 - Introduction to Spanish-American Literature: 1492 to 1900 *Units: 4*
- MLL 3463 - Introduction to Spanish-American Literature: 1900 to the Present *Units: 4*
- MLL 3495 - Spanish-American Culture and Civilization *Units: 4*
- MLL 4495 - A Single Movement, Country or Theme: Spanish American Literature *Units: 4*

3. Spanish Peninsular Literature and Culture:

- MLL 3418 - Spanish Culture and Civilization *Units: 4*
- MLL 4455 - Studies in the Golden Age of Spain *Units: 4*
- MLL 4457 - Survey Spanish Literature I: Medieval and Golden Age *Units: 4*
- MLL 4458 - Survey Spanish Literature II: 18th Century to Present *Units: 4*
- MLL 4460 - Studies in 20th Century Spanish Literature *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Department of Music

Department Office location in the Music and Business building, Room 2571

Open Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Faculty

Professors

Rafael Hernandez, D.M. Indiana University

Buddy O. James (Chair), D.M.A. University of Southern California

Associate Professors

John Eros Ph.D. The University of Michigan, Ann Arbor

Peter K. Marsh, Ph.D. Indiana University

Assistant Professors

Danielle Gaudry, D.M.A. University of Cincinnati

Omri Shimron, D.M.A. Eastman School of Music

Graduate Coordinator: Peter K. Marsh

Mission Statement

The mission of the Department of Music is to offer all students outstanding musical and educational experiences within a nurturing and collegial environment. These experiences provide opportunities for personal and professional enrichment by developing a greater appreciation for and understanding of the art of music. Through performance, creative activity, research, scholarship and teaching, students are prepared for careers as performers, composers, teachers and independent scholars, and for advanced study.

Scholarships

Graduate Study

Bachelor of Arts

Music, B.A.

Department & Faculty Information

Music (B.A.) 180 units

Program Description

The Music Department at CSUEB integrates rigorous academic training with a driving passion for the making of great music: the classics from the European-American tradition, great jazz, the new 'classics' of our own time, world music, experimental music and more. With a rich variety of opportunities for performing and composing and a deep commitment to teacher education, the Music Department offers something for all students seriously committed to pursuing a life in music.

Student performance groups are open to all qualified students and one need not be a music major to participate. There are more than twenty active ensembles including Symphonic Band, Jazz Workshop, University Singers, Orchestra, Opera Workshop, New Music Ensemble, Chorus, Oratorio Society, Percussion Ensemble, Chamber Singers, and many small vocal and instrumental ensembles.

The Department of Music offers Bachelor of Arts degree and Master of Arts degree majors which are fully accredited by the National Association of Schools of Music. All music majors have the advantage of continuous applied lessons with instrumental, vocal, or composition teachers on the faculty. A music minor is also offered.

The Music Department occupies a large, fully-equipped, modern facility with a number of special resources: a Media Center for Music Technology; Music Resource Center, with thousands of scores and recordings; Choral Music Education Student Resource Center, with thousands of choral octavos and conducting resources; large musical equipment collection for student use; Recital Hall with custom acoustical design; and professional recording facilities.

The Music curriculum is designed to serve the needs of students who have career goals in performance, composition, music technology, jazz, public school or private teaching, or graduate study, as well as those who are pursuing other fields of study and choose music as an elective.

Student Learning Outcomes

Students graduating with a B.A. in Music from Cal State East Bay will be able to:

1. Quickly identify rhythms and pitches and maintain pitch accuracy for application in performance or composition;
2. Bring an enriched tone production with improved technical skills to the performance of their primary instrument;
3. Apply critical and creative thinking and analytical reasoning to address complex challenges in music theory and history;
4. Demonstrate the ability to work collaboratively and respectfully with other musicians in a performance context; and
5. Integrate musical ideas, methods, theory, and practice, and communicate them to others clearly and persuasively, in classroom and performance settings.

Career Opportunities

- Choral Director
- Composer
- Arranger
- Music Professor/Teacher
- Concert Artist
- Symphony Member
- Jazz Musician
- Conductor
- Film/Video Composer
- Musical Theater Director
- DJ
- Freelance Performer

Scholarships

The Music Department annually awards a number of scholarships to entering and returning music majors. For more information, contact the Music Department office at (510) 885-3135.

Preparation

For Advanced Placement course equivalencies, see Registration chapter.

Admission

Students wanting to select music as a major are expected to have had a variety of pre-college cognitive and affective experiences, such as high school performance, high school theory programs, individual private instruction with music professionals, or music professional experiences. Admission to the major in music is determined by audition. Students must complete this audition and be accepted to the department prior to being accepted in the major.

Transfer students will be placed at the appropriate applied lesson level determined by their successful audition. Transfer students will also be subject to a proficiency examination as described below under "Special Requirements of the Department of Music, Section IV. Proficiency Examinations."

Standards and Guidelines for Auditions

May be found on the Department of Music website. <http://music.csueastbay.edu>.

Applied Lessons:

- Each Music major will declare an applied music discipline (keyboard, voice, wind, brass, percussion, strings, jazz, guitar, harp, composition) with the department.
- Majors wishing to choose composition as their applied music discipline are required to complete first year study in an instrumental or vocal discipline or demonstrate equivalent experience and submit a portfolio of written works for review. Students whose portfolios are accepted, will begin applied lessons in composition.
- To receive applied lessons, an undergraduate student must be enrolled for a minimum of six (6) units, two of which must be in any music course other than major performance activities and applied music.
- Registration for applied lessons requires **concurrent** enrollment in a major performance activity (MUS 3501-MUS3505; MUS 3510-MUS 3515). Students who do not meet this requirement by the end of the

add/drop period will not be eligible for applied lessons that quarter. Ensembles that may be used to meet this requirement are listed in the *Handbook for Music Majors*.

- All students enrolled in applied lessons must demonstrate their progress through periodic performances before a faculty jury as outlined in the *Handbook for Undergraduate Music Majors*.
- Students are limited to a total of twelve (12) quarters of study in applied instruction (assuming a passing grade for each quarter of instruction was given).

Recitals:

- Music majors are to appear each year in regularly scheduled student recitals as determined by the department.
- Specific recital performance requirements are outlined in the Handbook for Music Majors.
- Music majors are required to attend six (6) DEPARTMENTAL recitals or concerts each quarter on which they are not a performer or participant. Recital attendance is recorded on a recital attendance card that may be obtained from the Music Department office.

Major Performance Activities and Chamber Ensembles:

- Each music major is required to play his or her principal instrument (as determined by applied lesson enrollment) in one major music performance activity (see MUS 3501 - MUS 3515 under the *Course Description* chapter) each quarter in which he or she is registered for applied lessons. Students may choose to perform on a secondary instrument or voice to fulfill the requirement if performance opportunities on the principal instrument do not exist.
- The 3 units of chamber ensemble required for the Music major must be taken in 3 different quarters.

Proficiency Examinations:

- Proficiency examinations may be required in any or all aspects of music performance skills, theory, and history and literature as a basis for determining placement in sequence courses.
- An upper division transfer student who has completed most of his or her music major may be required to take remediation in certain courses in theory, history and literature, and performance based on the results of the proficiency examinations.
- All new music majors (except keyboard majors) are required to take a piano proficiency exam. If the exam is not passed, the student must enroll in the appropriate level of class piano instruction until the proficiency exam or MUS 2313 is passed. (Freshmen music majors, including keyboard majors, are required to take for credit a minimum of MUS 1314, MUS 1315, MUS 1316. They may challenge the course for credit if they believe their keyboard skills meet the demands of MUS 1314, MUS 1315, MUS 1316.)

Sample Program

A *Sample Program* for this degree can be found at the department website:<http://music.csueastbay.edu>.

Major Requirements (B.A.) 82 units

Since requirements are subject to change, consult an advisor in your major department for clarification and interpretation of your major requirements.

- The core major consists of 82 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (49 units)

*** Note: specified sequence courses to be taken concurrently.**

- MUS 1027 - Sightsinging I *Units: 1 **
- MUS 1028 - Sightsinging II *Units: 1*
- MUS 1029 - Sightsinging III *Units: 1*

- MUS 1031 - Music Theory I *Units: 4 **
- MUS 1032 - Music Theory II *Units: 4*
- MUS 1033 - Music Theory III *Units: 4*

- MUS 1155 - Music Through the Ages *Units: 4*

- MUS 1314 - Basic Piano Class I *Units: 1 **
- MUS 1315 - Basic Piano Class II *Units: 1*
- MUS 1316 - Basic Piano Class III *Units: 1*

- MUS 2027 - Sightsinging IV *Units: 1*
- MUS 2028 - Sightsinging V *Units: 1*
- MUS 2029 - Sightsinging VI *Units: 1*

- MUS 2031 - Music Theory IV *Units: 4*
- MUS 2032 - Music Theory V *Units: 4*
- MUS 2033 - Music Theory VI *Units: 4*

Three (3) units from the Level 10 Applied Music group:

- MUS 1610 - Level 10 Applied Study: Piano *Units: 1 (through)*
- MUS 1697 - Level 10 Applied Study: Jazz Trombone *Units: 1*

Three (3) units from the Level 20 Applied Music group:

- MUS 2610 - Level 20 Applied Study: Piano *Units: 1 (through)*
- MUS 2697 - Level 20 Applied Study: Jazz Trombone *Units: 1*

Six (6) units from this Large Ensembles group:

- MUS 3501 - Large Ensembles: University Chorus *Units: 1 (through)*
- MUS 3515 - Large Ensembles: Singing Society *Units: 1*

Upper Division (33 units)

*** Note: specified sequence courses to be taken concurrently.**

- MUS 3051 - Form and Analysis *Units: 4*

- MUS 3155 - Music Literature and Analysis I *Units: 4 **
- MUS 3156 - Music Literature and Analysis II *Units: 4*

- MUS 3157 - Music Literature and Analysis III *Units: 4*
- MUS 3609 - Recital *Units: 1*
- MUS 4609 - Level 40 Recital *Units: 1*

Six (6) units from this Large Ensembles group:

- MUS 3501 - Large Ensembles: University Chorus *Units: 1 (through)*
- MUS 3515 - Large Ensembles: Singing Society *Units: 1*

Three (3) units to be taken in three different quarters:

- MUS 3531 - Chamber Ensembles: Chamber Winds *Units: 1 (through)*
- MUS 3570 - Chamber Ensembles: Orchestre dB New Music *Units: 1*

Three (3) units from the Level 30 Applied Music group:

- MUS 3610 - Level 30 Applied Study: Piano *Units: 1 (through)*
- MUS 3697 - Level 30 Applied Study: Jazz Trombone *Units: 1*

Three (3) units from the Level 40 Applied Music group:

- MUS 4610 - Level 40 Applied Study: Piano *Units: 1 (through)*
- MUS 4697 - Level 40 Applied Study: Jazz Trombone *Units: 1*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Single Subject Preparation (Undergraduate)

Music, Single Subject Matter Preparation Program

Department & Faculty Information

Single Subject Matter Preparation Programs

- Foundational-level Mathematics, Single Subject Matter Preparation

- Mathematics, Single Subject Matter Preparation
- Music, Single Subject Matter Preparation Program
- Physical Education, Single Subject Matter Preparation
- Social Science, Single Subject Matter Preparation

Single Subject Matter Preparation: Music

Completion of the Single Subject Matter Preparation Program in Music is certified by the Department of Music. The Single Subject Matter Preparation Program in Music requires 39 units. For additional information, contact the Department of Music: Music and Business Bldg. 2571; 510-885-3135; website: <http://www20.csueastbay.edu/class/departments/music/index.html>.

Required Courses (39 units)

- MUS 2321 - Basic Voice *Units: 1*
- MUS 2331 - Basic Orchestral Instruments: Violin and Viola *Units: 1*
- MUS 2332 - Basic Orchestral Instruments: Cello and Bass *Units: 1*
- MUS 2341 - Basic Orchestral Instruments: Clarinet *Units: 1*
- MUS 2342 - Basic Orchestral Instruments: Double Reeds *Units: 1*
- MUS 2343 - Basic Orchestral Instruments: Flute and Saxophone *Units: 1*
- MUS 2355 - Basic Orchestral Instruments: Basic Brass *Units: 1*
- MUS 2361 - Basic Orchestral Instruments: Percussion *Units: 1*
- MUS 2371 - Basic Guitar *Units: 1*
- MUS 2410 - Foundations of Music Education *Units: 4*
- MUS 3014 - Introduction to World Music and Culture *Units: 4*
- MUS 3095 - Music Technology for Educators *Units: 3*
- MUS 3370 - Basic Conducting *Units: 3*
- MUS 3380 - Choral Conducting *Units: 3*
- MUS 3390 - Instrumental Conducting *Units: 3*
- MUS 4435 - Seminar in Public School Instrumental Teaching Techniques *Units: 3*
- MUS 4440 - Seminar in Public School Choral Teaching Techniques *Units: 3*
- MUS 4445 - Seminar in Elementary Classroom Music Teaching Techniques *Units: 3*
- MUS 4900 - Independent Study *Units: 1-4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Arts

Music, M.A.

Department & Faculty Information

Music (M.A.) 45 units

Program Description

The Master of Arts degree in Music is designed for those individuals pursuing careers as public or private school teachers for professional performers and composers, for school and college music teachers who wish to increase their professional effectiveness, and for those who plan further music study at the doctoral level. Courses emphasize scholarly performance and include in-depth work and research in the student's major field of interest. The ultimate goal of the Department of Music is to develop well-informed performers, independent scholars, and inspired teachers.

Student Learning Outcomes

Students graduating with an M.A. in Music from Cal State East Bay will be able to:

1. Demonstrate mastery within their primary area of emphasis, i.e. performance, composition, research, conducting, or teaching;
2. Apply critical and creative thinking and analytical reasoning to address complex challenges in music theory, music history, and world music;
3. Work collaboratively and respectfully with other musicians in a performance context; and
4. Integrate musical ideas, methods, theory, and practice, and communicate them to others clearly and persuasively, in classroom and performance settings.

Faculty

The Department of Music faculty have achieved an enviable reputation for their high degree of academic, professional, and classroom expertise. Faculty, students, and alumni are proud of the program and its success in graduating well-prepared students who have continued to work in the music field locally, nationally, and internationally. The programs of the Department of Music are fully accredited by the National Association of Schools of Music.

Scholarships

Scholarships, including the Graduate Equity Fellowships, are available for new and continuing graduate students. Contact the Department of Music office at (510) 885-3135 for more information.

Admission Requirements

Upon making application to the program, a candidate may be admitted for graduate study in the Department of Music as a "Conditionally Classified Graduate" student if: (1) the general requirements for graduate standing have been met, and (2) the student holds a baccalaureate degree with a major in music and an upper division grade point average of at least 3.0 ("B") in music.

Students wishing to enroll in the graduate program who do not have a major in music must first complete an equivalency of the Cal State East Bay B.A. degree major in Music. When the equivalency has been completed, the student will then be eligible for entrance into the graduate program, subject to the entrance requirements stated below.

All Areas

All graduate candidates must submit a Statement of Purpose and a resume or curriculum vitae. The Statement of Purpose should be no more than three pages in length (typed, double-spaced) and should describe the candidate's professional goals and aspirations. In addition, candidates are asked to submit two letters of recommendation, on letterhead, mailed directly by individuals familiar with his or her work or performance abilities.

Choral Music

Those wishing to pursue an emphasis in Choral Music must submit a video recording (DVD or online link) of at least 15 minutes of a rehearsal with a choral ensemble. You may optionally include a video of a concert performance in addition to the rehearsal video. Final candidates will be invited to campus to audition with one of the CSUEB choral ensembles. Preference will be given to candidates who apply to the Music Department by March 1.

Composition and Theory

Those wishing to pursue an emphasis in composition and theory must submit a compositional portfolio that includes at least two samples of their work written for different media, preferably with an accompanying audio or video recording. Those wishing to pursue an emphasis in music theory must submit a sample of their academic writing, preferably a thesis, term paper, or published article on a subject in music theory.

Jazz Studies

Those wishing to pursue an emphasis in jazz studies must complete an in-person audition or submit audition recordings (audio or video), preferably of a recent performance or recital.

Music Education

Those wishing to pursue an emphasis in music education must submit a copy of their California Teaching Credential and evidence of a minimum of two years fulltime teaching at the K-12th grade levels. In addition to the statement of purpose, they must also submit a video recording (DVD or online link) of at least 20 minutes of a class or rehearsal in a K-12 school.

Music History and Literature

Those wishing to pursue an emphasis in music history must submit a sample of their academic writing, preferably a thesis, term paper, or published article on a subject in musicology or ethnomusicology that demonstrate their research and writing skills and their abilities to think critically;

Performance

Those wishing to pursue an emphasis in performance must complete an in-person audition or submit audition recordings (audio or video), preferably of a recent performance or recital.

Graduate Music Advisory Examinations

The Graduate Music Advisory Examinations, given by the Department of Music, must be taken prior to the beginning of the student's first quarter in residence. These examinations include dictation, theory, history and literature, and piano proficiency. Contact the department for the date of these examinations.

Classification in the Program

A student may be a "Classified Graduate" student if (s)he:

1. Has completed all undergraduate deficiencies;
2. Has completed at least 12 quarter units in residence at the 6000-level applicable toward the master's degree, including Music 6000, with a minimum grade point average of 3.0;
3. Has passed the Graduate Advisory Examinations in basic piano proficiency, ear training, music history and literature, and music theory. The Graduate Advisory Examinations must be passed by the time the student has completed 20 units applicable to the degree or the student will be dropped from the program;
4. As a graduate student pursuing the history-literature area of emphasis, has demonstrated reading ability in French, German, or Italian; other languages may be substituted by approval of the department;
5. Has fulfilled the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Advancement to Candidacy

A student who holds "Classified Graduate" standing may be considered for Advancement to Candidacy when (s)he:

1. Has filed a study program for the completion of the degree which has been approved by the departmental Graduate Studies Committee;
2. If electing the performance emphasis, has successfully demonstrated a graduate standard of excellence before an auditions committee.

Degree Requirements

To be eligible for the Master of Arts degree a student must:

1. Be Advanced to Candidacy;
2. Complete 45 units of approved courses of which:
 1. 32 must be completed in residence;
 2. 24 must be at the 6000 level;
3. A minimum of 9 units must be in one of the four possible areas of emphasis: composition-theory, history-literature, music education, or performance;
4. Not more than 12 units of applied music will be counted in the performance area of emphasis;
5. Up to, but no more than 3 units of applied music, when approved by an advisor, may be applied toward degree requirements by candidates outside the performance area of emphasis;
6. At least 3 units in addition to those in the area of emphasis must be completed in each of the following areas: composition-theory, history-literature, and music education;

7. Up to, but no more than 9 units of study outside of music may be counted toward the degree (these units must be approved by a graduate advisor and must be at the 3000 level or above);
8. Performance emphasis candidates must complete 3 units of performance activities (large and/or chamber ensembles).
3. Present a thesis or project in one of the following forms:
 1. In the history-literature area, a standard research thesis (University Thesis, MUS 6910);
 2. In the composition-theory area, an original composition;
 3. In the music education area, either a standard research thesis (University Thesis, MUS 6910) or a project (Project, MUS 6899);
 4. In the performance area, a final graduate recital;
4. Pass both written and oral examinations upon completion of all coursework.
The candidate must observe the specific departmental requirements stated here and in the Handbook for Music Majors.

Curricular Requirements

Core Courses

All Music M.A. students must pass written and oral examinations for all coursework. In addition, all students are required to take:

- One course (3 units) of MUS Theory
- One course (3 units) of MUS History/Literature
- One course (3 units) of MUS Education
- MUS 6000 - Seminar in Bibliography and Research Methods *Units: 3*

Capstone Requirements

A thesis or project is required:

- In the history-literature area, a standard research thesis (MUS 6910).
- In the composition-theory area, an original composition (MUS 6899).
- In the music education area, either a standard research thesis or project (MUS 6910) or (MUS 6899).
- In the performance area, a final graduate recital (MUS 6899). * *see Errata Chapter for additional information about the recital.*

Choose one of the following based on above:

- MUS 6899 - Project *Units: 1-3*
- MUS 6910 - University Thesis *Units: 1-6*

Emphasis and Elective Courses

Between 6-12 units of MUS courses are required as electives; however, no more than 9 units of study outside of music may be counted toward the degree (these units must be approved by a graduate advisor and must be at the 3000 level or above).

Note the following Degree Requirements when determining your Emphasis and elective courses:

- A minimum of 9 units must be in one of the four possible areas of emphasis:
 1. composition-theory,

2. history-literature,
 3. music education, or
 4. performance; *Note: Graduate students with a performance emphasis are required to take a minimum of 3 units of in performance activities during their time in residency in the program. These students may apply a maximum of 6 units toward the 45 quarter units required for the M.A. degree in Music. Graduate students in other areas of emphasis are allowed, with prior approval of the Graduate Coordinator, to apply up to 3 units of credit in performance toward the 45 quarter units required for the M.A. degree in Music.*
- Not more than 12 units of applied music will be counted in the performance area of emphasis; however, up to, but no more than 3 units of applied music, when approved by an advisor, may be applied toward degree requirements by candidates outside the performance area of emphasis.

Areas of Emphasis

Within the M.A. degree program, students will concentrate their study in one (1) of six areas of emphasis and choose the remaining units required for the degree from that area. *See the Course Descriptions link provided below to see all MUS courses listed in area groups.*

Choral Music

The Choral Music emphasis is designed for the conductor and singer with a desire to improve their skills as a leader and contributor to the choral profession. The program is based on two pillars of effective musical leadership, repertoire and communication, and the numbers of students in the program are limited so that accepted students receive ample podium time to refine conducting and rehearsal skills. Students learn the vast canon of the choral repertoire through classes, seminars, ensembles, guest artists, private lessons, analysis and performance. Students conduct music from all eras and develop vital communication skills including rehearsal techniques, vocal techniques, program planning, and an emphasis is placed on conducting. The performance of a Graduate Choral Recital is a major goal of this program.

Composition-Theory

This area of emphasis is designed for the student who wishes to continue developing toward a professional level as a composer and who wishes to continue further study of music theory. Most students in this program aim toward careers as professional composers and teachers. Some continue into doctoral programs at other universities. Composition students are given a sixty-minute lesson each week. The successful completion of a substantial original composition, accompanied by a written analysis, is required for students in this area.

Jazz Studies

The Jazz Studies emphasis is designed to teach advanced jazz improvisational and stylistic techniques in preparation for a career in Jazz performance and education. The program is intended to create well-rounded musicians and educators that will disseminate the art and history of Jazz music. Performance of a Graduate Recital is a major goal of this program. Graduate Jazz Studies students will receive a sixty-minute lesson in their jazz applied instrumental area each week of the regular quarter.

Music Education

The Music Education emphasis is designed for experienced music educators who seek to develop as leaders and scholars in the field of music education. It is also designed for students with an interest in pursuing doctoral study and/or teaching at the collegiate level. Emphasis is placed on both the practical and academic aspects of contemporary music education. This program typically culminates in a research

thesis. Prospective students for this emphasis must possess a California Single Subject (music) teaching credential and at least two years of full-time K-12 music teaching experience.

Music History and Literature

This area of emphasis is designed to give sufficient academic work and background to those students who wish to continue graduate study at the doctoral level or for students wishing to teach in the areas of history, literature, and music appreciation. Classes offered by the Department of Music cover all the major historical periods and specific historical studies are offered as seminars. A student who pursues this option is expected to be able to do independent research and will complete a standard thesis.

Performance

The performance emphasis is designed to prepare the student as a professional performer or teacher through the advancement of instrumental or vocal skills and the study of selected historical, stylistic, and theoretical courses. An audition is required before a student is accepted into this area of emphasis. Performance of a Graduate Recital is a major goal of this program. Graduate performance students will receive a sixty-minute lesson each week of the regular quarter.

- *Note: Graduate students with a performance emphasis are required to take a minimum of 3 units of in performance activities during their time in residency in the program. These students may apply a maximum of 6 units toward the 45 quarter units required for the M.A. degree in Music. Graduate students in other areas of emphasis are allowed, with prior approval of the Graduate Coordinator, to apply up to 3 units of credit in performance toward the 45 quarter units required for the M.A. degree in Music.*

Upper Division Music Courses Acceptable for Master's Degree

Before enrolling in any undergraduate course the graduate student should be aware of the minimum requirement of 6000-level units and should consult his or her advisor in the department. *Note: 3000-level courses may be acceptable for the master's degree with approval of the graduate advisor.*

- MUS 4054 - Instrumentation *Units: 4*
- MUS 4435 - Seminar in Public School Instrumental Teaching Techniques *Units: 3*
- MUS 4440 - Seminar in Public School Choral Teaching Techniques *Units: 3*
- MUS 4445 - Seminar in Elementary Classroom Music Teaching Techniques *Units: 3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Music Minor

Department & Faculty Information

Minor Requirements (33 units)

The minor consists of 33 units.

Note: To be admitted to the minor program, the student must demonstrate vocal or instrumental performing ability. Applied instruction will be limited to three quarters of study.

Required courses:

- MUS 1027 - Sightsinging I *Units: 1*
- MUS 1028 - Sightsinging II *Units: 1*
- MUS 1029 - Sightsinging III *Units: 1*
- MUS 1031 - Music Theory I *Units: 4*
- MUS 1032 - Music Theory II *Units: 4*
- MUS 1033 - Music Theory III *Units: 4*
- MUS 1610 - Level 10 Applied Study: Piano *Units: 1* - MUS 1699 for 3 quarters
- MUS 3500 - MUS 3550 - Chamber Ensembles: Jazz Improvisation *Units: 1 2* for 4 quarters

Class piano instruction taken from:

For three units

- MUS 1314 - Basic Piano Class I *Units: 1*
- MUS 1315 - Basic Piano Class II *Units: 1*
- MUS 1316 - Basic Piano Class III *Units: 1*

or

- MUS 2311 - Intermediate Class Piano I *Units: 1 2*
- MUS 2312 - Intermediate Class Piano II *Units: 1 2*
- MUS 2313 - Intermediate Class Piano III *Units: 1 2*

Upper division electives in music

Upper division electives in music selected in consultation with departmental advisor *Units: 8*

Footnote

2. Substitutions for this requirement may be made, with the approval of the Departmental Minor advisor.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Nursing and Health Sciences

The Department Office is located on the 5th Floor of the Student & Faculty Support (SF) building, Room 502.

Open 8:00 a.m. - 5:00 p.m., Monday - Friday.

Dept. Phone: (510) 885-3481

Faculty

Professor Emerita

Carolyn M. Fong, Ph.D. University of California, Berkeley

Professors

Roberta F. Durham, Ph.D. University of California, San Francisco

Kimberly H. Kim, Ph.D. University of Wisconsin

Lindsay McCrea, Ph.D. University of California, San Francisco

Lynn A. Van Hofwegen (Chair), D.N.P. Case Western Reserve University

Associate Professors

Maria Cho, Ph.D. University of California, San Francisco

Denise Li, Ph.D. University of California, San Francisco

Michelle Tellez, Ph.D. University of California, San Francisco

Oscar Wambuguh, Ph.D. University of California, Berkeley

Assistant Professors

Daniel Doolan, Ph.D. University of California, San Francisco

Monika Britt Eckfield, Ph.D. University of California, San Francisco

Chandrakala Ganesh, Ph.D. Pennsylvania State University

Renee M. Granados, Ed.D. University of San Francisco

Alina Engelman, Dr.P.H. University of California, Berkeley

Nidhi Khosla, Ph.D. Johns Hopkins University

Matthew Moore, M.P.H. Tufts University

Arnab Mukherjea, Dr.P.H. University of California, Berkeley

Sahar Nouredini, Ph.D. University of California, San Francisco

Jason Smith, M.T.S., Harvard University, School of Divinity; J.D., Northeastern University, School of Law

Michael Stanton, Ph.D. Duke University

Claire Valderama-Wallace, MS University of California, San Francisco

Jennifer Winters, Ph.D. Walden University

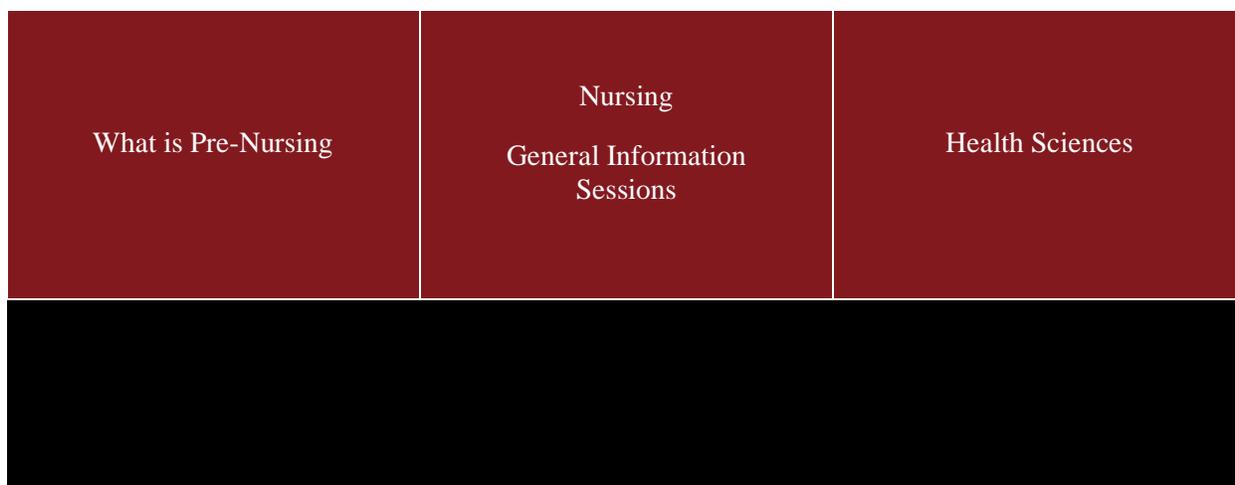
Mission Statement

The mission of the baccalaureate nursing program at CSUEB is to prepare professional nurse generalists who are committed to the practice of nursing and responsive to the ever changing needs of the communities we serve. The program therefore seeks to provide an inclusive community of learning focused primarily on undergraduate nursing education and the development of lifelong learners.

The nursing program supports and reflects the University mission of quality education for a diverse society. We value a diverse workforce, a diverse nursing student body, and culturally inclusive practitioners of nursing who are equipped to provide high quality care and have a transformative influence on nursing practice, healthcare environments, and the health of our community.

Health sciences is an interdisciplinary field that focuses on the application of physical, biological, and social sciences to understand and to improve health in human beings. It is an applied science that focuses on knowledge and skills necessary to practice in both clinical and population health settings. Students in our Health Sciences program prepare for careers in healthcare administration and policy, public health or prepare for further training in technical or professional clinical programs.

The Health Sciences degree program is the second largest and the fastest growing program at CSUEB.



Bachelor of Science

Health Sciences, Administration and Management Option, B.S.

Department & Faculty Information

Health Science (B.S.) 180 units

Program Description

Health Sciences is an interdisciplinary field that focuses on the application of physical, biological, and social sciences to understand and to improve health in human beings. It is an applied science that focuses on knowledge necessary to practice in both clinical and population health settings.

Our program helps students to understand health at the individual level, the community level and the population level. In addition to the biomedical model of health, we ask students to think critically and to explore health from a variety of perspectives and to understand the role that culture has in constructing health.

Our goal is to help students develop strong critical thinking skills, team work, and strong problem-solving skills rooted in a population perspective.

Student Learning Outcomes

Students graduating with a B.S. in Health Sciences from Cal State East Bay will be able to:

1. Integrate and synthesize knowledge from general education courses and courses in the biological, physical, social and health sciences;
2. Communicate effectively in the provision of healthcare services to the community;
3. Work effectively as individuals, teams, partnerships and larger groups toward accomplishing healthcare goals;
4. Apply ethics and professional standards to interactions with colleagues, supervisors and staff, diverse and multicultural clients, and with the general public;
5. Evaluate scientific and policy research to solve problems in the health sciences.

Career Opportunities

The health care field is the second largest industry in the United States and employs millions of workers. The demand for highly trained health care workers is high.

There are a number of career opportunities working in health sciences. There is a high demand for workers in clinical fields such as medicine, nursing, occupational therapy, physical therapy, laboratory technology, and other clinical fields.

In addition to clinical fields, there are opportunities in research, technology, administration, finance, pharmaceuticals, and environmental protection and sanitation. There are many career opportunities in fields such as public health and health policy as well.

Major Requirements (B.S.) 120-123 units

The B.S. degree requires a total of 180 units.

- The core major for the three options below consists of 84 units;
- the Administration and Management Option consists of 36 units;
- the Community Health Option consists of 36 units.
- the Pre-Clinical Preparation Option consists of 39 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

A grade of 'C' or better is required in each course with an HSC prefix. All Upper and Lower Division Core courses must be taken for a letter grade. Credit/No Credit is not accepted.

Note: The option in Environmental Health and Safety consists of 115-131 units and has a separate list of Lower Division and Upper Division Core courses. In addition, all HSC courses with 3000 and 4000 prefixes must be taken at CSU East Bay.

Lower Division Core (41 units)

- ANTH 1000 - Introduction to Anthropology Units: 4
or SOC 1000 Introduction to Sociology Units:4
or SOC 1002 Introduction to Sociology of Individual and Society Units:4
- BIOL 2010 - Human Physiology and Anatomy I Units: 5
or BIOL 2011 Anatomy and Physiology I Units:5
- BIOL 2020 - Human Physiology and Anatomy II Units: 5
- BIOL 2025 - Introduction to Microbiology Units: 5
or BIOL 3405 Microbiology Units: 6
or BIOL 4010 Microbes and Humanity Units:4
- HSC 1000 - Introduction to Health Professions Practice Units: 4
- HSC 1100 - Health: Maintenance of Wellness Units: 4
- NURS 2010 - Principles of Nutrition and Medical Nutrition Therapy Units: 4
or BIOL 3070 Human Nutrition Units:4
- PSYC 1000 - General Psychology Units: 5
or PSYC 1001 General Psychology and Society Units:5
or PSYC 1005 General Psychology for Healthier Living Units:5

- STAT 1000 - Elements of Probability and Statistics *Units: 5*

Upper Division Core (43 units)

- ANTH 3720 - Medical Anthropology *Units: 4*
or SOC 4720 Medical Sociology Units:4
- HSC 3200 - Environmental Health *Units: 4*
- HSC 3300 - Health Care Systems in the U.S. *Units: 4*
- HSC 3350 - Health Legislation and Government Programs *Units: 4*
- HSC 3400 - Community Health *Units: 4*
- HSC 3550 - Health Care Law and Ethics *Units: 4*
- HSC 3800 - Multicultural Issues in Health Care *Units: 4*
- HSC 4010 - Research and Program Evaluation in Health Science *Units: 4*
- HSC 4500 - Supervised Field Training and Report Writing *Units: 3*
- HSC 4600 - Health Systems Management *Units: 4*
- HSC 4700 - Senior Seminar *Units: 4*

Option Requirements

Select one of the three options in consultation with your faculty advisor. The choice of option should reflect your career goals and a willingness to acquire an in-depth knowledge of one area of the Health Sciences major.

- Health Sciences, Administration and Management Option, B.S.
- Health Sciences, Community Health Option, B.S.
- Health Sciences, Pre-Clinical Preparation Option, B.S.

Administration and Management Option (36 units)

Complete the following to satisfy the option:

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- HSC 2200 - Research and Writing in Health Care *Units: 4*
- MGMT 3600 - Theories of Management *Units: 4*
or HSC 4650 Advanced Principles of Health Care Management
- MKTG 3401 - Marketing Principles *Units: 4*
- Select an additional 16 units from one or more of the following areas: management, policy, evaluation, finance, or marketing in consultation with your faculty advisor.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Health Sciences, Community Health Option, B.S.

Department & Faculty Information

Health Science (B.S.) 180 units

Program Description

Health Sciences is an interdisciplinary field that focuses on the application of physical, biological, and social sciences to understand and to improve health in human beings. It is an applied science that focuses on knowledge necessary to practice in both clinical and population health settings.

Our program helps students to understand health at the individual level, the community level and the population level. In addition to the biomedical model of health, we ask students to think critically and to explore health from a variety of perspectives and to understand the role that culture has in constructing health.

Our goal is to help students develop strong critical thinking skills, team work, and strong problem-solving skills rooted in a population perspective.

Student Learning Outcomes

Students graduating with a B.S. in Health Sciences from Cal State East Bay will be able to:

1. Integrate and synthesize knowledge from general education courses and courses in the biological, physical, social and health sciences;
2. Communicate effectively in the provision of healthcare services to the community;
3. Work effectively as individuals, teams, partnerships and larger groups toward accomplishing healthcare goals;
4. Apply ethics and professional standards to interactions with colleagues, supervisors and staff, diverse and multicultural clients, and with the general public;
5. Evaluate scientific and policy research to solve problems in the health sciences.

Career Opportunities

The health care field is the second largest industry in the United States and employs millions of workers. The demand for highly trained health care workers is high.

There are a number of career opportunities working in health sciences. There is a high demand for workers in clinical fields such as medicine, nursing, occupational therapy, physical therapy, laboratory technology, and other clinical fields.

In addition to clinical fields, there are opportunities in research, technology, administration, finance, pharmaceuticals, and environmental protection and sanitation. There are many career opportunities in fields such as public health and health policy as well.

Major Requirements (B.S.) 120-123 units

The B.S. degree requires a total of 180 units.

- The core major for the three options below consists of 84 units;
- the Administration and Management Option consists of 36 units;
- the Community Health Option consists of 36 units.
- the Pre-Clinical Preparation Option consists of 39 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

A grade of 'C' or better is required in each course with an HSC prefix. All Upper and Lower Division Core courses must be taken for a letter grade. Credit/No Credit is not accepted.

Note: The option in Environmental Health and Safety consists of 115-131 units and has a separate list of Lower Division and Upper Division Core courses. In addition, all HSC courses with 3000 and 4000 prefixes must be taken at CSU East Bay.

Lower Division Core (41 units)

- ANTH 1000 - Introduction to Anthropology Units: 4
or SOC 1000 Introduction to Sociology Units:4
or SOC 1002 Introduction to Sociology of Individual and Society Units:4
- BIOL 2010 - Human Physiology and Anatomy I Units: 5
or BIOL 2011 Anatomy and Physiology I Units:5
- BIOL 2020 - Human Physiology and Anatomy II Units: 5
- BIOL 2025 - Introduction to Microbiology Units: 5
or BIOL 3405 Microbiology Units: 6
or BIOL 4010 Microbes and Humanity Units:4
- HSC 1000 - Introduction to Health Professions Practice Units: 4
- HSC 1100 - Health: Maintenance of Wellness Units: 4
- NURS 2010 - Principles of Nutrition and Medical Nutrition Therapy Units: 4
or BIOL 3070 Human Nutrition Units:4
- PSYC 1000 - General Psychology Units: 5
or PSYC 1001 General Psychology and Society Units:5
or PSYC 1005 General Psychology for Healthier Living Units:5
- STAT 1000 - Elements of Probability and Statistics Units: 5

Upper Division Core (43 units)

- ANTH 3720 - Medical Anthropology Units: 4
or SOC 4720 Medical Sociology Units:4
- HSC 3200 - Environmental Health Units: 4
- HSC 3300 - Health Care Systems in the U.S. Units: 4

- HSC 3350 - Health Legislation and Government Programs *Units: 4*
- HSC 3400 - Community Health *Units: 4*
- HSC 3550 - Health Care Law and Ethics *Units: 4*
- HSC 3800 - Multicultural Issues in Health Care *Units: 4*
- HSC 4010 - Research and Program Evaluation in Health Science *Units: 4*
- HSC 4500 - Supervised Field Training and Report Writing *Units: 3*
- HSC 4600 - Health Systems Management *Units: 4*
- HSC 4700 - Senior Seminar *Units: 4*

Option Requirements

Select one of the three options in consultation with your faculty advisor. The choice of option should reflect your career goals and a willingness to acquire an in-depth knowledge of one area of the Health Sciences major.

- Health Sciences, Administration and Management Option, B.S.
- Health Sciences, Community Health Option, B.S.
- Health Sciences, Pre-Clinical Preparation Option, B.S.

Community Health Option (36 units)

Required Courses

Complete the following courses (20 units):

- BIOL 3020 - Genetics, Evolution, and Humanity *Units: 4*
or HSC 3250 Genes and Human Health Units:4
- BIOL 3065 - Humans and Sex *Units: 4*
- BIOL 3410 - Epidemiology *Units: 4*
or HSC 3410 Epidemiology for Health Sciences Units: 4
- HSC 2200 - Research and Writing in Health Care *Units: 4*
- HSC 3700 - Health Behavior and Health Education Theory *Units: 4*

Elective Courses

Select an additional 16 units of coursework from the list below in consultation with your faculty advisor.

- COMM 3510 - Small Group Communication *Units: 4*
- HSC 2510 - Introduction to Peer Health Education *Units: 3*
- HSC 2550 - Peer Health Education Practicum *Units: 2-3*
- HDEV 3800 - Human Development and Interaction *Units: 4*
- MGMT 3614 - Organizational Behavior *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*
- MKTG 3425 - Promotion *Units: 4*
- MKTG 4417 - Consumer Behavior *Units: 4*
- PHIL 3335 - Science, Technology and Values *Units: 4*

- POSC 3330 - Interest Groups, Lobbying, and Political Reform *Units: 4*
- PSYC 3520 - Interpersonal Processes *Units: 4*
- PSYC 3540 - Groups and Organizations *Units: 4*
- PSYC 3550 - Social Influence and Change *Units: 4*
- SOC 3720 - Human Behavior in the Social Environment *Units: 4*
- WOST 3545 - Women's Health and Health Care *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Health Sciences, Pre-Clinical Preparation Option, B.S.

Department & Faculty Information

Please Note: The Department will no longer accept applications for the Pre-Clinical Preparation Option as of Winter 2018.

Health Science (B.S.) 180 units

Program Description

Health Sciences is an interdisciplinary field that focuses on the application of physical, biological, and social sciences to understand and to improve health in human beings. It is an applied science that focuses on knowledge necessary to practice in both clinical and population health settings.

Our program helps students to understand health at the individual level, the community level and the population level. In addition to the biomedical model of health, we ask students to think critically and to explore health from a variety of perspectives and to understand the role that culture has in constructing health.

Our goal is to help students develop strong critical thinking skills, team work, and strong problem-solving skills rooted in a population perspective.

Student Learning Outcomes

Students graduating with a B.S. in Health Sciences from Cal State East Bay will be able to:

1. Integrate and synthesize knowledge from general education courses and courses in the biological, physical, social and health sciences;
2. Communicate effectively in the provision of healthcare services to the community;
3. Work effectively as individuals, teams, partnerships and larger groups toward accomplishing healthcare goals;
4. Apply ethics and professional standards to interactions with colleagues, supervisors and staff, diverse and multicultural clients, and with the general public;
5. Evaluate scientific and policy research to solve problems in the health sciences.

Career Opportunities

The health care field is the second largest industry in the United States and employs millions of workers. The demand for highly trained health care workers is high.

There are a number of career opportunities working in health sciences. There is a high demand for workers in clinical fields such as medicine, nursing, occupational therapy, physical therapy, laboratory technology, and other clinical fields.

In addition to clinical fields, there are opportunities in research, technology, administration, finance, pharmaceuticals, and environmental protection and sanitation. There are many career opportunities in fields such as public health and health policy as well.

Major Requirements (B.S.) 120-123 units

The B.S. degree requires a total of 180 units.

- The core major for the three options below consists of 84 units;
- the Administration and Management Option consists of 36 units;
- the Community Health Option consists of 36 units.
- the Pre-Clinical Preparation Option consists of 39 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

A grade of 'C' or better is required in each course with an HSC prefix. All Upper and Lower Division Core courses must be taken for a letter grade. Credit/No Credit is not accepted.

Note: The option in Environmental Health and Safety consists of 115-131 units and has a separate list of Lower Division and Upper Division Core courses. In addition, all HSC courses with 3000 and 4000 prefixes must be taken at CSU East Bay.

Lower Division Core (41 units)

- ANTH 1000 - Introduction to Anthropology Units: 4
or SOC 1000 Introduction to Sociology Units:4
or SOC 1002 Introduction to Sociology of Individual and Society Units:4
- BIOL 2010 - Human Physiology and Anatomy I Units: 5
or BIOL 2011 Anatomy and Physiology I Units:5
- BIOL 2020 - Human Physiology and Anatomy II Units: 5
- BIOL 2025 - Introduction to Microbiology Units: 5

or BIOL 3405 Microbiology Units: 6

or BIOL 4010 Microbes and Humanity Units:4

- HSC 1000 - Introduction to Health Professions Practice Units: 4
- HSC 1100 - Health: Maintenance of Wellness Units: 4
- NURS 2010 - Principles of Nutrition and Medical Nutrition Therapy Units: 4
or BIOL 3070 Human Nutrition Units:4
- PSYC 1000 - General Psychology Units: 5
or PSYC 1001 General Psychology and Society Units:5
or PSYC 1005 General Psychology for Healthier Living Units:5
- STAT 1000 - Elements of Probability and Statistics Units: 5

Upper Division Core (43 units)

- ANTH 3720 - Medical Anthropology Units: 4
or SOC 4720 Medical Sociology Units:4
- HSC 3200 - Environmental Health Units: 4
- HSC 3300 - Health Care Systems in the U.S. Units: 4
- HSC 3350 - Health Legislation and Government Programs Units: 4
- HSC 3400 - Community Health Units: 4
- HSC 3550 - Health Care Law and Ethics Units: 4
- HSC 3800 - Multicultural Issues in Health Care Units: 4
- HSC 4010 - Research and Program Evaluation in Health Science Units: 4
- HSC 4500 - Supervised Field Training and Report Writing Units: 3
- HSC 4600 - Health Systems Management Units: 4
- HSC 4700 - Senior Seminar Units: 4

Option Requirements

Select one of the three options in consultation with your faculty advisor. The choice of option should reflect your career goals and a willingness to acquire an in-depth knowledge of one area of the Health Sciences major.

- Health Sciences, Administration and Management Option, B.S.
- Health Sciences, Community Health Option, B.S.
- Health Sciences, Pre-Clinical Preparation Option, B.S.

Pre-Clinical Preparation Option (39 units)

The courses below are designed to prepare students generally to enter a clinical program such as nursing, physician assistant, and various technical programs. Some programs may require different courses for entry. Working with an advisor, students may elect to complete a different pre-clinical preparation plan with different courses. To do so, students must:

1. propose a plan of courses, and
2. have the plan approved by an advisor.

Note:

- The Health Sciences program may not accept courses for credit taken before a plan is approved by an advisor.
 - Students interested in medical or dental school must meet with an advisor to design an alternate set of courses.
 - Students who do not propose an alternate set of courses must complete the following list of courses:
- CHEM 1101 - General Chemistry *Units: 5*
 - CHEM 1102 - General Chemistry *Units: 5*
 - CHEM 1103 - General Chemistry *Units: 5*
 - CHEM 2301 - Survey of Organic Chemistry *Units: 4*
 - CHEM 2302 - Survey of Organic Chemistry *Units: 4*
 - HSC 2200 - Research and Writing in Health Care *Units: 4*
 - PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
 - PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
 - PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Nursing, Pre-Licensure Option, B.S.

Department & Faculty Information

Nursing (B.S.) 180 units

Program Description

The Department of Nursing and Health Sciences offers an undergraduate program that leads to the Bachelor of Science degree with a major in Nursing. The program is designed to prepare a nurse generalist. Graduates of the program are prepared to work as professional nurses and/or pursue graduate education in nursing. There are two options within the major: the Pre-Licensure option and the RN Advanced Placement option.

The Pre-Licensure concentration consists of two years of pre-nursing requirements and two and a half years of nursing courses. Nursing courses have concurrent laboratories on campus and in local hospitals and community settings.

The RN Advanced Placement program is open only to students who hold a California Registered Nurse licensure. This program builds on the previous education of the Associate Degree in Nursing to provide students with the theoretical perspectives, concepts and skills required for a Bachelor's Degree in Nursing. The RN Advanced Placement concentration can be completed in 1 year of full time study or 2 years of part time study.

Student Learning Outcomes

Students graduating with a B.S. in Nursing from Cal State East Bay will be able to:

1. Synthesize knowledge from the natural sciences, behavioral sciences and the humanities with current nursing knowledge and theory to deliver nursing care;
2. Provide safe, compassionate nursing care to diverse populations;
3. Use critical thinking and communication skills to develop partnerships with clients and other health care professionals;
4. Demonstrate responsibility and accountability for design, delivery, and evaluation of client care;
5. Demonstrate professional behaviors in interactions with individuals, families, colleagues, and the community.

Career Opportunities

Graduates of the Nursing Pre-licensure Option will be qualified to take the National Council Licensure Examination (NCLEX) and to apply for the California Public Health Nursing Certificate. Upon completion of the RN licensure process, the graduate will be able to work as a Registered Nurse with career opportunities in a wide range of settings including in hospitals, extended care facilities, public health organizations, schools and in other community settings. Graduates of the RN Advanced placement Concentration are also eligible to apply for the California Public Health Nursing Certificate and have career opportunities as a Bachelor's prepared RN as listed above.

Major Advising

Because requirements are subject to change, consult an advisor in your major department for clarification and interpretation of your major requirements.

Major Requirements (B.S.) 101-141 units

The B.S. degree consists of 180 units.

- The core major consists of 55 units;
- the Pre-Licensure Option consists of 86 units;
- the RN Advanced Placement Option consists of 46 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (47 units)

The following are lower division core courses common to both Nursing Program options:

Pre-Nursing Courses:

- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*
or
- BIOL 2011 - Anatomy and Physiology I *Units: 5*
- BIOL 2020 - Human Physiology and Anatomy II *Units: 5*
or
- BIOL 2021 - Anatomy and Physiology II *Units: 5*
- BIOL 2025 - Introduction to Microbiology *Units: 5*
- ENGL 1001 - College Writing I *Units: 4*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*

And one course from each group:

- CHEM 1610 - Survey of Basic Chemistry for Health Sciences *Units: 6*
or
- CHEM 1615 - Survey of Basic Chemistry for Healthier Living *Units: 6*

Note: A general, inorganic or organic chemistry course may be substituted for either integrated chemistry course above.

- COMM 1000 - Public Speaking *Units: 4*
or
- COMM 1004 - Interpersonal Communication *Units: 4*
- PHIL 1000 - Workshop in Clear Thinking *Units: 4*
or
- PHIL 1001 - Introduction to Logic *Units: 4*

Non-Nursing Courses:

Choose one of the following:

- ANTH 1000 - Introduction to Anthropology *Units: 4*
- ANTH 1300 - Introduction to Cultural Anthropology *Units: 4*
- SOC 1000 - Introduction to Sociology *Units: 4*
- SOC 1002 - Introduction to Sociology of Individual and Society *Units: 4*

And one of the following:

- PSYC 1000 - General Psychology *Units: 5*
- PSYC 1001 - General Psychology and Society *Units: 5*
- PSYC 1005 - General Psychology for Healthier Living *Units: 5*

Upper Division Core (8 units)

The following are upper division core courses common to both Nursing Program options:

- HDEV 3800 - Human Development and Interaction *Units: 4*
- HIST 4710 - History and Trends in Nursing *Units: 4*

Option Requirements

Nursing offers two options. Students must choose one of the following:

- Nursing, Pre-Licensure Option, B.S.
- Nursing, RN Advanced Placement Option, B.S.

Pre-Licensure Option (86 units)

The Pre-Licensure option consists of 141 units; the B.S. degree requires a total of 180 units.

The Pre-Licensure option consists of two years of pre-nursing requirements and eight quarters of nursing courses. Nine quarters, however, are frequently needed to complete all nursing courses because of general education requirements and clinical space limitations. The prerequisite courses may be completed at Cal State East Bay or by taking equivalent courses at another college or university. Nursing courses have concurrent laboratories on campus and in local hospitals and community settings.

The Pre-Licensure option program is approved by the State of California Board of Registered Nursing (Tel: 916-322-3350) and by the Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington DC, 20036, Tel: 202-887-6791. Upon completion of the Nursing major, the student is qualified to take the National Council Licensure Examination (NCLEX-RN) and apply for the California Public Health Nursing Certificate.

Preparation

Students must take eight specific prerequisite courses to be eligible for admission to the Pre-Licensure option. Courses must be completed by the end of fall quarter of the preceding year for the student to be eligible for admission to the nursing program in the following fall quarter.

Students who plan to use transfer courses to satisfy prerequisite requirements must have equivalencies determined by the Cal State East Bay Department of Nursing and Health Sciences.

Admission

Because Nursing has been designated as an impacted program by the Board of Trustees, a special admission procedure has been instituted to assure that all students have an opportunity to be considered for admission to the Nursing major for fall quarter. General information on the program, admission criteria and application procedures may be obtained from the Department of Nursing and Health Sciences. To be considered for admission to the Clinical Nursing courses, students must complete two application forms:

1. The "CSU Application for Admission" and
2. The "Nursing Supplemental Application."

Both applications must be filed in November for admission in the fall quarter of the following academic year. Students must also take the "Test of Essential Academic Skills."

Prerequisites

To be eligible for admission, the student must have a minimum 3.00 GPA and a C or above (C- is not acceptable) for the lower-division core (pre-nursing) courses listed above. The four science prerequisite courses calculated separately must also have a minimum 3.00 GPA or above.

Note: Licensed Vocational Nurses, Medical Corps members, students with previous nursing coursework, and other health-care personnel must seek advisement from the Department of Nursing and Health Sciences prior to applying to the program.

Nursing Courses

Level I:

- NURS 2005 - Clinical Pathophysiology *Units: 4*
- NURS 2010 - Principles of Nutrition and Medical Nutrition Therapy *Units: 4*
- NURS 2015 - Pharmacology *Units: 3*
- NURS 2020 - Introduction to Contemporary Nursing *Units: 4*
- NURS 2021 - Nursing Support of Community-Based Clients *Units: 2*
- NURS 2022 - Level I Nursing Skills I *Units: 2*
- NURS 2030 - Nursing Care of Adults I *Units: 4*
- NURS 2031 - Care of Adults I Practicum *Units: 2*
- NURS 2032 - Basic Physical Assessment *Units: 2*
- NURS 2040 - Nursing Care of Adults II *Units: 4*
- NURS 2041 - Care of Adults II Practicum *Units: 3*
- NURS 2042 - Level I Nursing Skills II *Units: 1*

Level II:

- NURS 3001 - Level II Nursing Skills I *Units: 1*
- NURS 3002 - Level II Nursing Skills II *Units: 1*
- NURS 3003 - Level II Nursing Skills III *Units: 1*
- NURS 3201 - Patients and Families with Complex Needs *Units: 4*
- NURS 3202 - Nursing Leadership *Units: 4*
- NURS 3401 - Legal Responsibilities of Health Care Providers *Units: 2*
- NURS 3402 - Nursing Care of Adults III *Units: 1*
- NURS 3403 - Nursing Care of Adults III Practice *Units: 2*
- NURS 3404 - Care of Childbearing Families *Units: 1*
- NURS 3405 - Childbearing Family Practice *Units: 2*
- NURS 3406 - Care of Clients with Psychiatric/Mental Health Needs *Units: 1*
- NURS 3407 - Psychiatric/Mental Health Nursing Practicum *Units: 2*
- NURS 3408 - Nursing Care of Childrearing Families *Units: 1*
- NURS 3409 - Childrearing Family Practice *Units: 2*
- NURS 3410 - Nursing Care of Adults IV *Units: 1*
- NURS 3411 - Nursing Care of Adults IV Practice *Units: 2*
- NURS 3412 - Nursing Care of Elder Adults *Units: 1*

- NURS 3413 - Care of Elder Adults Practice *Units: 2*
- NURS 3502 - Continuum of Care *Units: 2*

Level III:

- NURS 4203 - Research Utilization *Units: 2*
- NURS 4207 - Principles of Community Health Nursing *Units: 2*
- NURS 4208 - Practicum of Community Health Nursing *Units: 4*
- NURS 4301 - Preceptorship Seminar *Units: 2*
- NURS 4302 - Preceptorship Practicum *Units: 8*

Nursing Course Progression Policy

For information on the Nursing Course Progression Policy, please see the online Nursing Student Handbook on the Department of Nursing website.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Nursing, RN Advanced Placement Option, B.S.

Department & Faculty Information

Nursing (B.S.) 180 units

Program Description

The Department of Nursing and Health Sciences offers an undergraduate program that leads to the Bachelor of Science degree with a major in Nursing. The program is designed to prepare a nurse generalist. Graduates of the program are prepared to work as professional nurses and/or pursue graduate education in nursing. There are two options within the major: the Pre-Licensure option and the RN Advanced Placement option.

The Pre-Licensure concentration consists of two years of pre-nursing requirements and two and a half years of nursing courses. Nursing courses have concurrent laboratories on campus and in local hospitals and community settings.

The RN Advanced Placement program is open only to students who hold a California Registered Nurse licensure. This program builds on the previous education of the Associate Degree in Nursing to provide students with the theoretical perspectives, concepts and skills required for a Bachelor's Degree in Nursing. The RN Advanced Placement concentration can be completed in 1 year of full time study or 2 years of part time study.

Student Learning Outcomes

Students graduating with a B.S. in Nursing from Cal State East Bay will be able to:

1. Synthesize knowledge from the natural sciences, behavioral sciences and the humanities with current nursing knowledge and theory to deliver nursing care;
2. Provide safe, compassionate nursing care to diverse populations;
3. Use critical thinking and communication skills to develop partnerships with clients and other health care professionals;
4. Demonstrate responsibility and accountability for design, delivery, and evaluation of client care;
5. Demonstrate professional behaviors in interactions with individuals, families, colleagues, and the community.

Career Opportunities

Graduates of the Nursing Pre-licensure Option will be qualified to take the National Council Licensure Examination (NCLEX) and to apply for the California Public Health Nursing Certificate. Upon completion of the RN licensure process, the graduate will be able to work as a Registered Nurse with career opportunities in a wide range of settings including in hospitals, extended care facilities, public health organizations, schools and in other community settings. Graduates of the RN Advanced placement Concentration are also eligible to apply for the California Public Health Nursing Certificate and have career opportunities as a Bachelor's prepared RN as listed above.

Major Advising

Because requirements are subject to change, consult an advisor in your major department for clarification and interpretation of your major requirements.

Major Requirements (B.S.) 101-141 units

The B.S. degree consists of 180 units.

- The core major consists of 55 units;
- the Pre-Licensure Option consists of 86 units;
- the RN Advanced Placement Option consists of 46 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division Core (47 units)

The following are lower division core courses common to both Nursing Program options:

Pre-Nursing Courses:

- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*
or
- BIOL 2011 - Anatomy and Physiology I *Units: 5*
- BIOL 2020 - Human Physiology and Anatomy II *Units: 5*
or
- BIOL 2021 - Anatomy and Physiology II *Units: 5*
- BIOL 2025 - Introduction to Microbiology *Units: 5*
- ENGL 1001 - College Writing I *Units: 4*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*

And one course from each group:

- CHEM 1610 - Survey of Basic Chemistry for Health Sciences *Units: 6*
or
- CHEM 1615 - Survey of Basic Chemistry for Healthier Living *Units: 6*

Note: A general, inorganic or organic chemistry course may be substituted for either integrated chemistry course above.

- COMM 1000 - Public Speaking *Units: 4*
or
- COMM 1004 - Interpersonal Communication *Units: 4*
- PHIL 1000 - Workshop in Clear Thinking *Units: 4*
or
- PHIL 1001 - Introduction to Logic *Units: 4*

Non-Nursing Courses:

Choose one of the following:

- ANTH 1000 - Introduction to Anthropology *Units: 4*
- ANTH 1300 - Introduction to Cultural Anthropology *Units: 4*
- SOC 1000 - Introduction to Sociology *Units: 4*
- SOC 1002 - Introduction to Sociology of Individual and Society *Units: 4*

And one of the following:

- PSYC 1000 - General Psychology *Units: 5*
- PSYC 1001 - General Psychology and Society *Units: 5*
- PSYC 1005 - General Psychology for Healthier Living *Units: 5*

Upper Division Core (8 units)

The following are upper division core courses common to both Nursing Program options:

- HDEV 3800 - Human Development and Interaction *Units: 4*

- HIST 4710 - History and Trends in Nursing *Units: 4*

Option Requirements

Nursing offers two options. Students must choose one of the following:

- Nursing, Pre-Licensure Option, B.S.
- Nursing, RN Advanced Placement Option, B.S.

RN Advanced Placement Option (46 units)

Note: The RN Advanced Placement program is open only to students who hold a California Registered Nurse licensure.

This program builds on the previous education of the Associated Degree in Nursing to provide students with the theoretical perspectives, concepts and skills required for a Bachelor's Degree in Nursing. The RN Advanced Placement option consists of 101 units, many of which are transferrable from the student's basic nursing program. Units may also be earned through credit by examination. Advanced placement examination credit is given for successful completion of the NCLEX-RN. The B.S. degree requires a total of 180 units.

The Registered Nurse Advanced Placement option is a 4-6 quarter program, with full or part-time study. The first term focuses on selected theories and concepts taught in Levels I and II of the basic nursing program. Students join the basic program for Research Utilization, Nursing Leadership, Community Health, and Preceptorship.

Eligibility

To be eligible for the RN Advanced Placement option, a student must:

1. Have an unencumbered, unrestricted California RN License by time of entry into the program.
2. Be a graduate of an ADN program or Diploma Nursing program (within the last twelve months); or have six months or equivalent full-time nursing practice within the United States in the past two years.
3. Meet all university admission requirements and nursing program deadlines.
4. Meet minimum prerequisite GPA requirements. See website for details.

Admission

General information on the program, admission criteria and application procedures may be obtained from the Department of Nursing and Health Sciences. To be considered for admission to the Nursing Program, students must complete two application forms:

1. The "CSU Application for Admission," and
 2. The "Nursing Supplemental Application."
- Both applications must be filed in November for admission in the fall quarter of the following academic year.

Course Schedule

A program pathway for this degree can be found at the department website:<http://www20.csueastbay.edu/csci/departments/nursing>.

Curricular Requirements

Bridge Courses:

- NURS 2005 - Clinical Pathophysiology *Units: 4*
- NURS 2010 - Principles of Nutrition and Medical Nutrition Therapy *Units: 4*
- NURS 2015 - Pharmacology *Units: 3*
- NURS 3202 - Nursing Leadership *Units: 4*
- NURS 3502 - Continuum of Care *Units: 2*
- NURS 3503 - Advanced Physical Assessment *Units: 3*
- NURS 3505 - Advanced Principles I *Units: 4*
- NURS 3507 - Advanced Principles II *Units: 4*
- NURS 3509 - Advanced Principles III *Units: 4*

Level III:

- NURS 4203 - Research Utilization *Units: 2*
- NURS 4207 - Principles of Community Health Nursing *Units: 2*
- NURS 4208 - Practicum of Community Health Nursing *Units: 4*
- NURS 4301 - Preceptorship Seminar *Units: 2*
- NURS 4305 - Preceptorship Practicum for the RN-BSN Student *Units: 4*

Nursing Course Progression Policy

For information on the Nursing Course Progression Policy, please see the online Nursing Student Handbook on the Department of Nursing website.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

Health Sciences Minor

Department & Faculty Information

Minor Requirements (24 units)

The minor consists of 24 units. Complete 24 units of Health Sciences (HSC) prefix courses of which at least 12 units must be upper division. Specific courses related to a student's major and/or educational and career goals must be selected in consultation with a Health Sciences faculty advisor. A grade of "C" or better is required for all minor courses with an HSC prefix.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Philosophy

The Department Office is located on the 4th Floor of the Student and Faculty Services building, Room 442

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Phone: (510) 885-3225

Faculty

Professor Emeritus

Marek W. Bielecki, Ph.D. University of Warsaw (Poland)

Professor

Jennifer L. Eagan, Ph.D. Duquesne University

Associate Professors

Barbara Hall, Ph.D. University of Arizona, J.D. DePaul University Law School

Christopher M. Moreman (Chair), Ph.D. University of Wales, Lampeter

Assistant Professor

Craig Derksen, Ph.D. University of Maryland

Department Statement

The Philosophy Department at California State University, East Bay seeks to promote the exploration of enduring human concerns - concerns, for example, about the nature of knowledge, ethics, truth, and God. In addition to emphasizing classical philosophy, the department encourages students to think critically about contemporary debates, particularly in the areas of law, human rights and social justice; science, technology, and values; and religion. We strive to instill in our students lifelong habits of questioning, of exploring views contrary to their own, and of engaging in reasoned and honest dialogue. By our focus on analysis, comprehension and communication, we aim to develop qualities that are essential to personal fulfillment, civic responsibility, and career success.

Reflections

Philosophy Society

School of Global Humanities and Cultural Studies

Bachelor of Arts

Philosophy, B.A.

Department & Faculty Information

Philosophy, (B.A.) 180 units

Program Description

The Department of Philosophy at Cal State East Bay seeks to promote the exploration of enduring human concerns--concerns, for example, about the nature of knowledge, ethics, truth, and God. In addition to emphasizing classical philosophy, the department encourages students to think critically about contemporary debates, particularly in the areas of law, human rights, and social justice; science, technology, and values; and religion. The department's faculty strive to instill in students lifelong habits of questioning, of exploring views contrary to their own, and of engaging in reasoned and honest dialogue. By their focus on analysis, comprehension and communication, they aim to develop qualities that are essential to personal fulfillment, civic responsibility, and career success.

Many different kinds of students choose the major in philosophy. Some intend to do graduate work in philosophy, often with the intention of becoming philosophy professors who research and teach in philosophy. Others take philosophy as a preparation for another professional area. Traditionally, for example, philosophy has been one of the chief roads to professional law schools. Philosophy also serves as a good general liberal arts education, since many of the long-established university disciplines are founded on philosophical principles: political science, sociology, education, aesthetics, physics, and other subjects. Finally, many students major in philosophy in order to prepare for careers that require clarity of thought, analytical ability, good writing skills, and the ability to present a reasoned argument.

Student Learning Outcomes

Students graduating with a B.A. in Philosophy from Cal State East Bay will be able to:

1. write clear, academically rigorous, argumentative essays.
2. read complex texts, create original arguments, analyze the arguments of others, and express these criticisms orally and in writing.
3. demonstrate knowledge of philosophical and/or religious traditions, their relevant concepts, theories, methods, and historical contexts.
4. develop their capacities for ethical decision making, Socratic humility, openness to the ideas of others, reflective self-awareness, and a life-long curiosity about big questions.
5. cultivate an appreciation for a diversity of ideas and values across time and for human difference in areas such as: religion, culture, ethnicity, race, class, sexuality, and gender.

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Career Opportunities

- Analyst
- Business Executive
- Clergy
- Consultant
- Critic
- Editor
- Foreign Service Officer
- Journalist
- Lawyer
- Philosopher
- Policy Analyst
- Primary/Secondary School Teacher
- Professor
- Public Administrator
- Theologian
- Writer

Major Requirements (B.A.) 60 units

The B.A. degree requires a total of 180 units.

- The core major consists of 60 units (at least 56 units **MUST** be upper division);
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*
Note: Philosophy majors should consult with a Philosophy department advisor or the chairperson for advice in selecting Philosophy courses that suit their individual educational and career goals.

Core Curriculum (28 units)

Ethics

- PHIL 3100 - Ethics *Units: 4*

Metaphysics / Epistemology

Select 4 units from:

- PHIL 3301 - Theory of Knowledge *Units: 4*
- PHIL 3311 - Metaphysics *Units: 4*
- PHIL 3322 - Philosophy of Language *Units: 4*
- PHIL 3332 - Philosophy of Science *Units: 4*

Religion

Select 4 units from:

- PHIL 3400 - Philosophy of Religion *Units: 4*
- PHIL 3403 - Religions of the East *Units: 4*
- PHIL 3431 - Cults, New Religious Movements *Units: 4*

Diversity

Select 4 units from:

- PHIL 3510 - Human Rights and Social Justice: Cultural Groups and Women in the U.S. *Units: 4*
- PHIL 3511 - Philosophy of Human Rights and Global Justice *Units: 4*
- PHIL 3515 - Race and Social Justice *Units: 4*
- PHIL 3720 - Feminist Philosophy *Units: 4*
- PHIL 3721 - African-American Philosophical Perspectives *Units: 4*

History of Philosophy

Select 8 units from:

- PHIL 3601 - Ancient and Medieval Philosophy *Units: 4*
- PHIL 3602 - Modern Philosophy *Units: 4*
- PHIL 3603 - Thinkers of the Enlightenment *Units: 4*
- PHIL 3605 - Studies in Contemporary Philosophy *Units: 4*

Capstone

- PHIL 3305 - Fundamental Questions: Self, Nature, and God *Units: 4*

Elective Courses (32 units)

Students can choose Electives from any other course in Philosophy not already taken in fulfillment of one of the requirements above. Students may count no more than one lower-division course (4 units) towards the major. Students are free to build their own elective path through philosophy according to their interests. Students wishing to focus their studies in a particular direction should choose electives from courses listed in one of the suggested areas below.

Note: Some of the courses below might be taken either as electives OR to fulfill requirements listed above.

Philosophy Graduate School Preparation

- PHIL 3002 - Modern Logic *Units: 4*
- PHIL 3301 - Theory of Knowledge *Units: 4*
- PHIL 3311 - Metaphysics *Units: 4*
- PHIL 3332 - Philosophy of Science *Units: 4*
- PHIL 3502 - Social and Political Philosophy *Units: 4*
- PHIL 3601 - Ancient and Medieval Philosophy *Units: 4*
- PHIL 3602 - Modern Philosophy *Units: 4*
- PHIL 3603 - Thinkers of the Enlightenment *Units: 4*
- PHIL 3605 - Studies in Contemporary Philosophy *Units: 4*
- PHIL 4606 - Seminar in Philosophy *Units: 4*

Religious Studies

- PHIL 3400 - Philosophy of Religion *Units: 4* * **Note, PHIL 3400 is also appropriate for graduate school preparation.**
- PHIL 3401 - Contemporary Religious Thinkers *Units: 4*
- PHIL 3403 - Religions of the East *Units: 4*
- PHIL 3404 - Mysticism *Units: 4*
- PHIL 3410 - Comparative Themes in Eastern and Western Philosophy *Units: 4*
- PHIL 3411 - Judaism *Units: 4*
- PHIL 3417 - Islam *Units: 4*
- PHIL 3421 - Atheism, Agnosticism, and Theism *Units: 4*
- PHIL 3430 - The Bible in Film *Units: 4*
- PHIL 3431 - Cults, New Religious Movements *Units: 4*
- PHIL 3432 - Religion, Monsters, and Horror *Units: 4*
- PHIL 3433 - Views of the Afterlife *Units: 4*

Pre-Law

- PHIL 3010 - Critical Legal Reasoning *Units: 4*
- PHIL 3503 - Philosophy of Law *Units: 4*
- PHIL 3510 - Human Rights and Social Justice: Cultural Groups and Women in the U.S. *Units: 4*
- PHIL 3511 - Philosophy of Human Rights and Global Justice *Units: 4*
- PHIL 3515 - Race and Social Justice *Units: 4*

Applied Ethics

- PHIL 3151 - Environmental Ethics *Units: 4*
- PHIL 3152 - Biomedical Ethics *Units: 4*
- PHIL 3560 - Business and Professional Ethics *Units: 4*

- PHIL 3925 - Contemporary Ethical Issues *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

Philosophy Minor

Department & Faculty Information

Minor Requirements (28 units)

The Philosophy minor consists of 28 units of Philosophy courses of which at least 24 units must be upper division. The purpose of the Minor in Philosophy is to provide a general background in Philosophy. Philosophy minors can choose any set of upper division Philosophy classes, which can include courses in the areas of religious studies, law, human rights, social justice, philosophy of science, ethics, and the history of philosophy. Philosophy courses focus on writing and critical reasoning skills; therefore the Philosophy Minor fits well with any major. Prospective Philosophy minors should consult with a Philosophy department advisor or the chairperson to select courses.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Physics

The Department Office is located on the 2nd Floor of the North Science (SC-N) building, Room 231

Open 8:00 a.m. - 5:00 p.m., Monday - Friday.

Dept. Phone: (510) 885-3471

Faculty

Professors

Derek Kimball, Ph.D. University of California, Berkeley

Jason Singley, Ph.D. University of California, San Diego

Associate Professor

Erik Helgren (Chair), Ph.D. University of California, Los Angeles

Assistant Professors

Amy Furniss, Ph.D. University of California, Santa Cruz

Jennie Guzman, Ph.D. University of California, Berkeley

Ryan Smith, Ph.D. University of Colorado, Boulder

Department Statement

Physics is crucial to understanding the world around us, the world inside us, and the world beyond us. It is the most basic and fundamental science. Physics challenges our imaginations with concepts like relativity and string theory, and it leads to great discoveries, like computers and lasers, that change our lives. The physics department at CSUEB offers a comprehensive curriculum with a hands-on philosophy to learning that includes seven laboratory courses and a strong emphasis on undergraduate research. The program prepares students for careers in basic research, science education, engineering and is an excellent foundation for professional school in medicine and patent law.

Advising

Graduate School

Scholarships

Internships

Bachelor of Arts

Physics, B.A.

Department & Faculty Information

Physics (B.A.) 180 units

Program Description

In physics, one attempts to discover, formulate, explain, and apply the basic laws of nature. You could be a physicist and work in areas as diverse as astrophysics, relativity, properties of materials, or the standard model of fundamental particles and interactions. Principles of physics provide the foundation for other sciences as well as engineering. Some of the examples of modern technological development from the application of physical principles include radio and television, computers, laser scanners, and communication by fiber optics. In addition, physicists explore problems in astronomy and theories for the origin and evolution of the universe.

At Cal State East Bay students can choose between a Physics, B.S. degree and a Physics, B.A. degree. The Physics, B.S. degree major program is designed to give students an understanding of the fundamentals of physics including concepts of atomic and nuclear physics, classical mechanics, wave motion and sound, electromagnetism and optics, heat and thermodynamics, relativity, quantum mechanics, and elementary particles and their interactions.

Whereas the Physics, B.S. degree provides more focus, the Physics, B.A. degree major program is designed to satisfy the needs of students who require greater breadth of study across the sciences than the Physics, B.S. program can provide. Students who might be more interested in the Physics, B.A. degree, for example, would be prospective secondary-school teachers, or students who wish to pursue interdisciplinary study (e.g., in biophysics), or graduate study in professional programs (e.g., in the health sciences), business, or law in technical fields. For those students interested in becoming secondary-school teachers, an option in Physics Education is available which has a larger breadth of science courses required for teaching in California.

Physics Major Learning Objectives

Students graduating with a Bachelor's of Arts degree in Physics will be able to:

- Describe the fundamental principles of physics and be able to apply these core ideas to analyze physical processes;
- Use quantitative reasoning and critical thinking to solve problems, both theoretical and experimental in nature;
- Learn new technical subjects and skills;
- Construct, assess and troubleshoot experiments, quantitatively analyze the results using appropriate statistical procedures and tests of systematic errors, and draw meaningful conclusions;
- Effectively explain scientific ideas, both theoretical and experimental, to diverse audiences through written and oral presentations, both formal and informal;
- Work professionally, effectively, and inclusively as a member of diverse collaborations to solve problems.

Career Opportunities

- Astronomer
- Biochemical Engineer
- Device Engineer
- Electrical Engineer
- Electric Power Administrator
- Geophysicists
- Laboratory Assistant
- Laser Technician
- Mechanical Engineer
- Pharmacologist
- Physics Teacher
- Pollution Control Technician
- Professor
- Renewable Energy Manager
- Research Scientist
- Satellite Engineer
- Security Researcher
- Software Engineer
- Technical Writer

Features

With relatively small classes and teaching as a major emphasis of faculty members, the physics major involves a considerable amount of individualized instruction. In addition, research done by faculty members often includes student participation.

Hands-on experience is a central theme of the programs. Upper division students use modern equipment to conduct experiments in such areas as fiber optics, atomic and molecular spectroscopy, nuclear magnetic resonance, and solar cell construction and characterization.

Physics majors have an opportunity to be inducted into the national physics honors society, Sigma Pi Sigma. Additionally, students may join the Society of Physics Students (SPS).

Preparation

For Advanced Placement course equivalencies, see Registration.

Major Requirements (B.A.) 67-87 units

The B.A. degree requires a total of 180 units.

- The core major consists of 64-68 units;
- the electives for the non- Option consists of 3 units;
- the Physics Education Option consists of 19 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division (37-40 units)

- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2304 - Calculus III *Units: 4*
- MATH 2305 - Calculus IV *Units: 4*
- PHYS 2004 - General Physics *Units: 5*
and as grouped, either:
- PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations *Units: 5*
- PHYS 1002 - General Physics: Thermodynamics and Optics *Units: 5*
- PHYS 1003 - General Physics: Electromagnetism *Units: 5*
or
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Upper Division (27-28 units)

Note: an additional upper division unit is required for the students completing the Physics Education option - see below.

- PHYS 3101 - Analytic Mechanics I *Units: 3*
- PHYS 3151 - Thermal and Statistical Physics I *Units: 3*
- PHYS 3180 - Computational Physics *Units: 4*
- PHYS 3280 - Electronics *Units: 4*
- PHYS 3281 - Experimental Physics *Units: 4*
- PHYS 3301 - Quantum Mechanics I *Units: 3*
- PHYS 4001 - Electromagnetism I *Units: 3*
- PHYS 4950 - Physics Capstone *Units: 1*

And two (2) units selected from either:

Note: students completing the Physical Education option must complete three (3) units.

- PHYS 4250 - Selected Topics *Units: 1-3*
- PHYS 4850 - Undergraduate Research *Units: 1-3*

Option Requirements

Students are required to complete the required units for the major by choosing either:

- Physics, Physics Education Option, B.A.
- Physics, B.A. (non-option elective units)

Electives For Non-Option BA Majors (3 units)

Students NOT completing the Physics Education option are required to select three (3) elective units from the following:

- PHYS 3102 - Analytic Mechanics II *Units: 3*
- PHYS 3152 - Thermal and Statistical Physics II *Units: 3*
- PHYS 3283 - Advanced Laboratory *Units: 4*
- PHYS 3302 - Quantum Mechanics II *Units: 3*
- PHYS 4002 - Electromagnetism II *Units: 3*
- PHYS 4600 - Solid State *Units: 3*
- PHYS 4700 - Modern Optics *Units: 3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Physics, Physics Education Option, B.A.

Department & Faculty Information

Physics (B.A.) 180 units

Program Description

In physics, one attempts to discover, formulate, explain, and apply the basic laws of nature. You could be a physicist and work in areas as diverse as astrophysics, relativity, properties of materials, or the standard model of fundamental particles and interactions. Principles of physics provide the foundation for other sciences as well as engineering. Some of the examples of modern technological development from the application of physical principles include radio and television, computers, laser scanners, and communication by fiber optics. In addition, physicists explore problems in astronomy and theories for the origin and evolution of the universe.

At Cal State East Bay students can choose between a Physics, B.S. degree and a Physics, B.A. degree. The Physics, B.S. degree major program is designed to give students an understanding of the fundamentals of physics including concepts of atomic and nuclear physics, classical mechanics, wave motion and sound, electromagnetism and optics, heat and thermodynamics, relativity, quantum mechanics, and elementary particles and their interactions.

Whereas the Physics, B.S. degree provides more focus, the Physics, B.A. degree major program is designed to satisfy the needs of students who require greater breadth of study across the sciences than the

Physics, B.S. program can provide. Students who might be more interested in the Physics, B.A. degree, for example, would be prospective secondary-school teachers, or students who wish to pursue interdisciplinary study (e.g., in biophysics), or graduate study in professional programs (e.g., in the health sciences), business, or law in technical fields. For those students interested in becoming secondary-school teachers, an option in Physics Education is available which has a larger breadth of science courses required for teaching in California.

Physics Major Learning Objectives

Students graduating with a Bachelor's of Arts degree in Physics will be able to:

- Describe the fundamental principles of physics and be able to apply these core ideas to analyze physical processes;
- Use quantitative reasoning and critical thinking to solve problems, both theoretical and experimental in nature;
- Learn new technical subjects and skills;
- Construct, assess and troubleshoot experiments, quantitatively analyze the results using appropriate statistical procedures and tests of systematic errors, and draw meaningful conclusions;
- Effectively explain scientific ideas, both theoretical and experimental, to diverse audiences through written and oral presentations, both formal and informal;
- Work professionally, effectively, and inclusively as a member of diverse collaborations to solve problems.

Career Opportunities

- Astronomer
- Biochemical Engineer
- Device Engineer
- Electrical Engineer
- Electric Power Administrator
- Geophysicists
- Laboratory Assistant
- Laser Technician
- Mechanical Engineer
- Pharmacologist
- Physics Teacher
- Pollution Control Technician
- Professor
- Renewable Energy Manager
- Research Scientist
- Satellite Engineer
- Security Researcher
- Software Engineer
- Technical Writer

Features

With relatively small classes and teaching as a major emphasis of faculty members, the physics major involves a considerable amount of individualized instruction. In addition, research done by faculty members often includes student participation.

Hands-on experience is a central theme of the programs. Upper division students use modern equipment to conduct experiments in such areas as fiber optics, atomic and molecular spectroscopy, nuclear magnetic resonance, and solar cell construction and characterization.

Physics majors have an opportunity to be inducted into the national physics honors society, Sigma Pi Sigma. Additionally, students may join the Society of Physics Students (SPS).

Preparation

For Advanced Placement course equivalencies, see Registration.

Major Requirements (B.A.) 67-87 units

The B.A. degree requires a total of 180 units.

- The core major consists of 64-68 units;
- the electives for the non- Option consists of 3 units;
- the Physics Education Option consists of 19 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Lower Division (37-40 units)

- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2304 - Calculus III *Units: 4*
- MATH 2305 - Calculus IV *Units: 4*
- PHYS 2004 - General Physics *Units: 5*
and as grouped, either:
- PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations *Units: 5*
- PHYS 1002 - General Physics: Thermodynamics and Optics *Units: 5*
- PHYS 1003 - General Physics: Electromagnetism *Units: 5*
- or*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Upper Division (27-28 units)

Note: an additional upper division unit is required for the students completing the Physics Education option - see below.

- PHYS 3101 - Analytic Mechanics I *Units: 3*
- PHYS 3151 - Thermal and Statistical Physics I *Units: 3*
- PHYS 3180 - Computational Physics *Units: 4*
- PHYS 3280 - Electronics *Units: 4*
- PHYS 3281 - Experimental Physics *Units: 4*
- PHYS 3301 - Quantum Mechanics I *Units: 3*
- PHYS 4001 - Electromagnetism I *Units: 3*
- PHYS 4950 - Physics Capstone *Units: 1*

And two (2) units selected from either:

Note: students completing the Physical Education option must complete three (3) units.

- PHYS 4250 - Selected Topics *Units: 1-3*
- PHYS 4850 - Undergraduate Research *Units: 1-3*

Option Requirements

Students are required to complete the required units for the major by choosing either:

- Physics, Physics Education Option, B.A.
- Physics, B.A. (non-option elective units)

Physics Education Option (19 units)

The Bachelor of Arts degree, major in Physics with an option in Physics Education, is designed for students interested in a career teaching physics at the high school level, but also prepares students to work as an industrial physicist. This program covers all of the content areas necessary for teaching both high school physics and general science courses in middle and high schools, thus preparing graduates to enter a single subject credential program. The B.A. degree major with a Physics Education option consists of 85-87 units; the B.A. degree requires a total of 180 units.

Option units:

- BIOL 1000 - Basic Concepts in Biology *Units: 5*
- CHEM 1100 - Introduction to College Chemistry *Units: 5*
- GEOL 1000 - Earth Systems Science *Units: 5*
- PHIL 3335 - Science, Technology and Values *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women

requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Bachelor of Science

Physics, B.S.

Department & Faculty Information

Physics (B.S.) 180 units

Program Description

In physics, one attempts to discover, formulate, explain, and apply the basic laws of nature. You could be a physicist and work in areas as diverse as astrophysics, relativity, properties of materials, or the standard model of fundamental particles and interactions. Principles of physics provide the foundation for other sciences as well as engineering. Some of the examples of modern technological development from the application of physical principles include radio and television, computers, laser scanners, and communication by fiber optics. In addition, physicists explore problems in astronomy and theories for the origin and evolution of the universe.

At Cal State East Bay students can choose between a Physics, B.S. degree and a Physics, B.A. degree. The Physics, B.S. degree major program is designed to give students an understanding of the fundamentals of physics including concepts of atomic and nuclear physics, classical mechanics, wave motion and sound, electromagnetism and optics, heat and thermodynamics, relativity, quantum mechanics, and elementary particles and their interactions.

Whereas the Physics, B.S. degree provides more focus, the Physics, B.A. degree major program is designed to satisfy the needs of students who require greater breadth of study across the sciences than the Physics, B.S. program can provide. Students who might be more interested in the Physics, B.A. degree, for example, would be prospective secondary-school teachers, or students who wish to pursue interdisciplinary study (e.g., in biophysics), or graduate study in professional programs (e.g., in the health sciences), business, or law in technical fields. For those students interested in becoming secondary-school teachers, an option in Physics Education is available which has a larger breadth of science courses required for teaching in California.

Physics Major Learning Objectives

Students graduating with a Bachelor's of Science degree in Physics will be able to:

- Explain the fundamental principles of physics and be able to apply these core ideas to analyze physical processes;
- Apply quantitative reasoning and critical thinking to solve complex problems, both theoretical and experimental in nature;
- Independently learn new technical subjects and skills;
- Design, construct, assess and troubleshoot experiments, quantitatively analyze the results using appropriate statistical procedures and tests of systematic errors, and draw meaningful conclusions;

- Effectively discuss scientific ideas, both theoretical and experimental, to diverse audiences through written and oral presentations, both formal and informal;
- Work professionally, effectively, and inclusively as a member of diverse collaborations to solve problems.

Career Opportunities

- Astronomer
- Biochemical Engineer
- Device Engineer
- Electrical Engineer
- Electric Power Administrator
- Geophysicists
- Laboratory Assistant
- Laser Technician
- Mechanical Engineer
- Pharmacologist
- Physics Teacher
- Pollution Control Technician
- Professor
- Renewable Energy Manager
- Research Scientist
- Satellite Engineer
- Security Researcher
- Software Engineer
- Technical Writer

Features

With relatively small classes and teaching as a major emphasis of faculty members, the physics major involves a considerable amount of individualized instruction. In addition, research done by faculty members often includes student participation.

Hands-on experience is a central theme of the programs. Upper division students use modern equipment to conduct experiments in such areas as fiber optics, atomic and molecular spectroscopy, nuclear magnetic resonance, and solar cell construction and characterization.

Physics majors have an opportunity to be inducted into the national physics honors society, Sigma Pi Sigma. Additionally, students may join the Society of Physics Students (SPS).

Preparation

For Advanced Placement course equivalencies, see Registration.

Sample Program

A *Sample Program* for this degree can be found at the department website:
www20.csueastbay.edu/csci/departments/physics/index.html

Major Requirements (B.S.) 108 units

The B.S. degree requires a total of 180 units

- The core major consists of 108 units;
 - GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
 - *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*
- Please consult an advisor in your major department for clarification and interpretation of your major requirements. .

Lower Division Core (50 units)

- CHEM 1101 - General Chemistry *Units: 5*
- CHEM 1102 - General Chemistry *Units: 5*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2304 - Calculus III *Units: 4*
- MATH 2305 - Calculus IV *Units: 4*
- PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations *Units: 5*
- PHYS 1002 - General Physics: Thermodynamics and Optics *Units: 5*
- PHYS 1003 - General Physics: Electromagnetism *Units: 5*
- PHYS 2004 - General Physics *Units: 5*

Upper Division Core (58 units)

- MATH 3331 - Differential Equations *Units: 4*
- PHYS 3101 - Analytic Mechanics I *Units: 3*
- PHYS 3102 - Analytic Mechanics II *Units: 3*
- PHYS 3151 - Thermal and Statistical Physics I *Units: 3*
- PHYS 3152 - Thermal and Statistical Physics II *Units: 3*
- PHYS 3180 - Computational Physics *Units: 4*
- PHYS 3280 - Electronics *Units: 4*
- PHYS 3281 - Experimental Physics *Units: 4*
- PHYS 3283 - Advanced Laboratory *Units: 4*
- PHYS 3301 - Quantum Mechanics I *Units: 3*
- PHYS 3302 - Quantum Mechanics II *Units: 3*
- PHYS 3303 - Quantum Mechanics III *Units: 3*
- PHYS 4001 - Electromagnetism I *Units: 3*
- PHYS 4002 - Electromagnetism II *Units: 3*
- PHYS 4003 - Electromagnetism III *Units: 3*
- PHYS 4600 - Solid State *Units: 3*
- PHYS 4700 - Modern Optics *Units: 3*
- PHYS 4950 - Physics Capstone *Units: 1*

And choose one (1) of the following for 1 unit only:

- PHYS 4250 - Selected Topics *Units: 1-3*
- PHYS 4850 - Undergraduate Research *Units: 1-3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

Physics Minor

Department & Faculty Information

Minor Requirements (30-33 units)

The minor in physics is designed to provide a general background in physics for students majoring in other areas. It is of particular value to students majoring in such sciences as biology, chemistry, computer science, geology, and mathematics. A minor in physics will broaden students' understanding of physical science and will expand employment opportunities, including teaching at the secondary school level. The minor consists of 30-33 units.

Required courses (17-20 units)

- PHYS 2004 - General Physics *Units: 5*

And choose one (1) group from the following:

- PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations *Units: 5*
- PHYS 1002 - General Physics: Thermodynamics and Optics *Units: 5*
- PHYS 1003 - General Physics: Electromagnetism *Units: 5*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Elective Courses (13 units)

Choose three courses (9 units) from the following:

- PHYS 3101 - Analytic Mechanics I *Units: 3*
- PHYS 3102 - Analytic Mechanics II *Units: 3*
- PHYS 3151 - Thermal and Statistical Physics I *Units: 3*
- PHYS 3152 - Thermal and Statistical Physics II *Units: 3*
- PHYS 3301 - Quantum Mechanics I *Units: 3*
- PHYS 3302 - Quantum Mechanics II *Units: 3*
- PHYS 3303 - Quantum Mechanics III *Units: 3*
- PHYS 4001 - Electromagnetism I *Units: 3*
- PHYS 4002 - Electromagnetism II *Units: 3*
- PHYS 4003 - Electromagnetism III *Units: 3*
- PHYS 4600 - Solid State *Units: 3*
- PHYS 4700 - Modern Optics *Units: 3*

And choose one course (4 units) from the following:

- PHYS 3180 - Computational Physics *Units: 4*
- PHYS 3280 - Electronics *Units: 4*
- PHYS 3281 - Experimental Physics *Units: 4*
- PHYS 3283 - Advanced Laboratory *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Non-Degree

Preprofessional Health Academic Programs (PHAP)

Email: preprof@csueastbay.edu

Websites:

<http://www20.csueastbay.edu/csci/departments/phap/index.html>; <https://www.ce.csueastbay.edu/ce/programs/pre-professional-health/>

Biomedical Sciences

A student interested in entering medicine, dentistry, optometry, pharmacy, physical therapy, veterinary science, or allied health sciences should contact the Preprofessional Health Academic Program at the Department of Physics office, SCN 231 (510-885-3401). The current director of the program and preprofessional health advisor is Dr. Oscar Wambuguh, an assistant professor of health sciences. He usually holds regular prehealth advising hours as indicated at the program website. Peer student advisors (officers of the PreHealth Society) hold regular office hours which are also posted at the program site.

The Preprofessional Health Academic Program located at the Department of Physics office will direct the student to a preprofessional advisor to receive program information and individual counseling about meeting the requirements for admission to professional schools. The program requires that students register by downloading and completing an application available at the program website. The program offers a letter service that organizes the student's individual letters of recommendation as a package sent to professional schools.

The required courses for the various professional fields do not comprise a major, therefore the student is free to select any major. Accordingly, in addition to the preprofessional advisor, each student must also select a major advisor on the same basis as do all other students at the university. Admission to professional schools is highly competitive. Consequently, the major selected should be one representing an alternate career objective satisfactory to the student.

Students intending to enter the health professions should plan on completing a baccalaureate degree with an appropriate academic major. Many students major in biological sciences (any option), biochemistry or health sciences (pre-doctoral option B3), but majors in the social sciences and the humanities are acceptable to professional schools, provided the specified courses in science have been completed.

Admission to professional schools is restricted to those students who have developed a facility in the use of English and in quantitative thinking, who have mastered the fundamentals of the physical and biological sciences, studied in depth one of the major fields of knowledge, and obtained a competitive score in the required entrance tests.

Cal State East Bay is an official test center for the Medical College Admission Test (MCAT). The now computerized MCAT is administered throughout the year under the auspices of the Testing Office. Premedical students are urged to schedule this test for Spring of their junior year.

The Dental/Optomtery/Pharmacy/Veterinary Admission Test, required of all pre dental, preoptometry, prepharmacy and preveterinary students, may be taken by application throughout the year. Students should plan to take this test in Spring of their junior year. Contact the Testing Office for further details, or visit the respective test websites.

Courses such as ANTH 3720 (Medical Anthropology), HSC 3300 (Healthcare Systems in the U.S.), PHIL 3152 (Biomedical Ethics), HSC 3200 (Environmental Health), HSC 3250 (Genes and Human Health) and SOC 4720 (Medical Sociology) will be of value to students in broadening their educational experiences and increasing their skills; in addition to preparing students for interviews at professional schools. Some of these courses may be counted for General Education, depending upon the major. More information is available at the program website or further discussion with a prehealth advisor.

Sample programs for preprofessional students in Medicine (including allopathic, osteopathic, podiatric, and veterinary medicine) and Dentistry can be found at <http://www20.csueastbay.edu/csci/departments/phap/index.html>. Please consult with a prehealth advisor first, before embarking on any of these programs.

Allied Health Fields

The following programs are offered by the university in the allied health fields. The Department of Biological Sciences has an Option in Biomedical Laboratory Sciences in its B.S. degree major. Options in Physical Activity Studies, Exercise, Nutrition, and Wellness, Therapeutic Studies, Social Justice, and Pre-Physical Therapy are available in the Department of Kinesiology and Physical Education. The Department of Nursing and Health Sciences has a B.S. degree major both in Nursing and in Health Sciences. The graduate department of Educational Psychology has an M.S. in Counseling. Both B.S. and M.S. programs in Speech Pathology and Audiology are offered as well as a Clinical Rehabilitative Services Credential. The Department of Public Affairs and Administration offers an interdisciplinary Master of Science in Health Care Administration degree. These programs are described in the alphabetical listing in this catalog. Please contact the appropriate departments and schools for additional information.

Certificate in Pre-Physical Therapy

IMPORTANT NOTICE: The department is not accepting applications for the Certificate in Pre-Physical Therapy. Please contact the Department of Kinesiology for more information.

The certificate requirements, as proposed, can be met by completing 78-79 units as shown below.

I. Lower Division (60-61 units)

BIOL 1401 Molecular and Cellular Biology (5)

BIOL 1403 Animal Biology (5)

BIOL 2010 (or 2011), 2020 Human Physiology and Anatomy I, II (5, 4)

BIOL 2025 Introduction to Microbiology (5) or BIOL 4160 Medical Physiology (4)

CHEM 1101, 1102, 1103 General Chemistry (5, 5, 5)

PHYS 2701, 2702, 2703 Introductory Physics (4, 4, 4)

PSYC 1000 General Psychology (or 1001) (5)

STAT 1000 Elements of Probability and Statistics (5)

II. Upper Division (18 units)

KIN 3305 Structural Kinesiology (4)

KIN 3310 Biomechanics (5)

KIN 3320 Exercise Physiology (5)

PSYC 4410 Abnormal Psychology (4)

Field Observation and Voluntary Participation

Students enrolled in the program must complete one to three quarters of field observation and volunteer participation in physical therapy at cooperating agencies. Evidence of such fieldwork can be gained by liaison with appropriate personnel at these agencies.

Additional Courses

Additional courses may be needed to meet the requirements of specific programs in Physical Therapy. Examples are given below. Students are advised to consult a preprofessional advisor in the Department of Kinesiology and Physical Education for further information.

BIOL 4160 Medical Physiology (4)

CHEM 2301/2302 Survey of Organic Chemistry (4, 4)

KIN 4330 Clinical Exercise Physiology (4)

PSYC 4420 Developmental Psychology (4)

KIN 4000-level course on computer applications in kinesiology and physical education

Pre-Law Studies

The study of law is a postgraduate professional program, usually requiring three years of full-time study beyond the completion of the bachelor's degree. No specific pre-law undergraduate program is required for admission to law schools. However, for students wishing to focus on legal studies at Cal State East Bay, the Political Science Department has a Pre-Law option in the Political Science Major.

Students intending to enter law school commonly complete undergraduate majors in political science, philosophy, economics, business, or history. The pre-law student's undergraduate plan of study should include among its objectives a facility in the proper use of written and spoken English, a sampling of undergraduate law courses, one or more critical/logical thinking courses, and a basic understanding of government and economics. Some law schools recommend that students take a basic accounting course, particularly if they are interested in business or tax law.

Students planning to enter law school should consult a pre-law advisor. Dr. David Baggins of the Department of Political Science, who is an attorney, serves as the university pre-law advisor. Several other departments also have pre-law advisors.

Most accredited law schools require that applicants complete the Law School Admission Test. The LSAT is typically given in September, December, February, and June at one or more testing centers in the Bay Area. Pre-law students should obtain LSAT registration materials and law school applications early in their final year of college. Copies of these materials can also be secured from the pre-law advisor in the Department of Political Science and from the Testing Office, Library, Room LI 3165A. The Political Science Department Library also has a copy of the Law School Guidebook and many law school catalogs.

Pre-Theological Studies

The American Association of Theological Schools recommends that students anticipating graduate theological education take a broad liberal arts program leading to the B.A. degree. Cal State East Bay recommends that pre-theology students complete the Religious Studies Option in the Philosophy Major. A reading knowledge of at least one language other than English is highly recommended. Students should elect courses which will sharpen their conceptual processes (logic, scientific method, literary or historical research) and should have more than an introduction to the world of people and ideas, the world of nature, and the world of human affairs. It is also possible to complete a minor in religious studies. Students planning to enter theological schools should consult the Department of Philosophy (MI 4006) about their major and baccalaureate degree.

Department of Political Science

The Department Office is located on 4th Floor of the Student & Faculty Support building, Room 402

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3221

Faculty

Professor Emeritus

David Sadofsky Baggins, Ph.D. Syracuse University

Professor

Kim Geron (Chair), Ph.D. University of California, Riverside

Associate Professors

Elizabeth Bergman, Ph.D. Claremont Graduate University

Maria C. Ortuoste, Ph.D. Arizona State University

Assistant Professors

Jeremiah Garretson, Ph.D. Vanderbilt University

Danvy Le, Ph.D. University of California, Irvine

Pre-Law Advisors

Emeritus Professor David Baggins

Associate Professor Elizabeth Bergman

Professor Kim Geron

Department Statement

The Department of Political Science offers a B.A. degree that gives both a strong background in social science and excellent professional preparation. The major offers three distinct paths to completion, the traditional major and options in pre-law and public affairs and administration. The two options offer interdisciplinary pre-professional curricula. The department is strong in every aspect of American government (national, state, and local institutions, public policy, public law, and public

administration), as well as Comparative Politics in international relations. Political Science majors learn to be strong writers, public speakers, and researchers. Opportunities are also offered to learn advanced social science methodology and practical political skills, as well as to participate in faculty research. Students receive assistance in finding - and credit for completing - local, state, and national internships. Graduating seniors report very high levels of satisfaction with the major, and the number of Political Science majors continues to grow.

Scholarships

Reference Links

Advising

Bachelor of Arts

Political Science, B.A.

Department & Faculty Information

Political Science (B.A.) 180 units

Program Description

The political science curriculum helps students to acquire an organized body of knowledge about government and to think analytically about public policy, law, and politics. The political science degree prepares graduates to enter careers in government, public service, public administration, public policy analysis, legislative advocacy, business, international relations, and teaching. Many Cal State East Bay political science graduates continue their academic careers in law school, or in the pursuit of graduate degrees in political science or public policy analysis.

Student Learning Outcomes

Students graduating with a B.A. in Political Science will be able to:

1. develop and articulate an understanding of democratic theory and practice and gain practical experience in politics, public policy, and civic engagement.
2. demonstrate through oral and written competency, an understanding of the theories, concepts, empirical content, and research agendas of the fields of political science with advanced understanding in the selected option.
3. demonstrate an understanding of political culture in the U.S. and around the world including the economic, ideological, ethnic and cultural groups and movements that engage the political process.
4. articulate career goals, demonstrate knowledge of how to achieve those goals, and produce evidence of working to achieve the goals.
5. demonstrate the ability to apply knowledge through collaborative learning and teamwork.

Career Opportunities

- Administrative Assistant
- Attorney
- Campaign Aide/Manager
- Diplomat
- FBI/CIA Agent
- Foreign Service Officer
- International Relations Specialist
- Journalist
- Labor Organizer/Union Representative
- Law Clerk
- Legislative Advocate/Lobbyist
- Legislative Aide
- Paralegal
- Legal Assistant
- Police Officer
- Politician
- Polling Specialist
- Private Investigator
- Public Administrator
- Public Information Officer
- Research Specialist
- Secret Service Agent
- Teacher

Features

The political science major offers a Pre-Law option for students planning a career in law. The Public Affairs and Administration option is designed to meet the needs of students contemplating a career in public administration. The Political Science department offers a major and a minor. Special features of the Political Science major include: the Intercollegiate Model United Nations Club; field trips to Sacramento and to State and Federal courts; guest political speakers; pre-law advising; local, Sacramento, Washington, and political campaign internships; and the Political Science Club.

Preparation

For Advanced Placement course equivalencies, see Registration.

Major Requirements (B.A.) 56-64 units

The B.A. degree requires a total of 180 units.

- The core major consists of 20 units;
- the electives for the non- Option consists of 36 units;
- the Pre-Law Option consists of 44 units.
- the Public Affairs and Administration Option consists of 41 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult an advisor in your major department for clarification and interpretation of your major requirements.

Shared Core (20 units)

All Political Science majors are required to complete the following shared core curriculum:

- POSC 1201 - American Political Institutions *Units: 4*
- POSC 1202 - Public Policy/California Politics *Units: 4 or Public Affairs and Administration*
Option students may substitute: ECON 2302 Principles of Macroeconomics Units: 4
- POSC 3030 - The Study of Political Science *Units: 4*
- POSC 4910 - Political Science Seminar *Units: 4*
- **And 4 units from the American Government and Politics courses**
Note: The Traditional Political Science track and the Pre-Law option students may choose from the Public Policy and Administration courses (listed below) to fulfill these 4 units.
- POSC 3111 - The American Presidency *Units: 4*
- POSC 3113 - Political Internship *Units: 2-4*
- POSC 3115 - United States Congress *Units: 4*
- POSC 3120 - State and Local Politics and Government *Units: 4*
- POSC 3130 - Urban Politics *Units: 4*
- POSC 3150 - Politics of California *Units: 4*
- POSC 3300 - Voting and Public Opinion *Units: 4*
- POSC 3310 - Political Parties and Campaigning *Units: 4*
- POSC 3330 - Interest Groups, Lobbying, and Political Reform *Units: 4*
- POSC 3333 - Ethnic and Minority Politics *Units: 4*
- POSC 3335 - African American Politics *Units: 4*
- POSC 3336 - Asian American Politics *Units: 4*
- POSC 3340 - Women and Politics *Units: 4*
- POSC 3360 - Culture and Politics in the United States *Units: 4*
- POSC 3375 - Practical Politics *Units: 4*

Public Policy and Administration Courses

- POSC 3419 - Labor Policy and Law *Units: 4*
- POSC 3522 - The Politics and Law of New Genetic Technologies *Units: 4*
- POSC 3800 - Public Policy Analysis *Units: 4*
- POSC 4171 - Public Policy and the Environment *Units: 4*
- POSC 4445 - Bureaucratic Politics and Administrative Law *Units: 4*

Option Requirements

Political Science offers three choices for students to complete the major:

Students can complete the required units for the major by choosing one of the options below:

- Political Science, Pre-Law Option, B.A.
- Political Science, Public Affairs and Administration Option, B.A.
- Political Science, B.A. (*Traditional Political Science Major*)

The Traditional Political Science Major: Additional Course Requirements (36 units)

Students NOT completing an option are required to complete the following 36 units for the major:

Public Law

One course (4 units) from:

- POSC 3410 - Law and Society *Units: 4*
- POSC 3417 - Survey of American Law *Units: 4*
- POSC 3441 - American Constitutional Law: Government *Units: 4*
- POSC 3442 - American Constitutional Law: Rights *Units: 4*
- POSC 3460 - Environmental Law *Units: 4*
- POSC 3470 - International Law *Units: 4*
- POSC 3503 - Philosophy of Law *Units: 4*
- POSC 4445 - Bureaucratic Politics and Administrative Law *Units: 4*

Comparative Government and Politics

One course (4 units) from:

- POSC 3201 - Political Systems of Western Europe *Units: 4*
- POSC 3204 - Political Systems of Asia *Units: 4*
- POSC 3230 - Government and Politics in the Middle East *Units: 4*
- POSC 3260 - Government and Politics of Africa South of the Sahara *Units: 4*
- POSC 3280 - Political Systems of Latin America *Units: 4*
- POSC 3290 - Comparative Law *Units: 4*

International Relations

One course (4 units) from:

- POSC 3500 - World Problems and Global Response *Units: 4*
- POSC 3505 - American Foreign Policy *Units: 4*
- POSC 3508 - Politics of Filipino-American Relations *Units: 4*
- POSC 3510 - International Security in the 21st Century *Units: 4*
- POSC 3521 - Politics of the Global Economy *Units: 4*
- POSC 3550 - The United Nations and World Community *Units: 4*

Political Theory

One course (4 units) from:

- POSC 3703 - American Political Thought *Units: 4*
- POSC 3704 - Marxism in Theory and Practice *Units: 4*
- POSC 3711 - Greek, Roman and Medieval Political Thought *Units: 4*
- POSC 3713 - Contemporary Political Thought *Units: 4*
- POSC 3717 - Theories of Empire *Units: 4*

Electives

And an additional 20 units from any upper division political science courses.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Political Science, Pre-Law Option, B.A.

Department & Faculty Information

Political Science (B.A.) 180 units

Program Description

The political science curriculum helps students to acquire an organized body of knowledge about government and to think analytically about public policy, law, and politics. The political science degree prepares graduates to enter careers in government, public service, public administration, public policy analysis, legislative advocacy, business, international relations, and teaching. Many Cal State East Bay political science graduates continue their academic careers in law school, or in the pursuit of graduate degrees in political science or public policy analysis.

Student Learning Outcomes

Students graduating with a B.A. in Political Science will be able to:

1. develop and articulate an understanding of democratic theory and practice and gain practical experience in politics, public policy, and civic engagement.

2. demonstrate through oral and written competency, an understanding of the theories, concepts, empirical content, and research agendas of the fields of political science with advanced understanding in the selected option.
3. demonstrate an understanding of political culture in the U.S. and around the world including the economic, ideological, ethnic and cultural groups and movements that engage the political process.
4. articulate career goals, demonstrate knowledge of how to achieve those goals, and produce evidence of working to achieve the goals.
5. demonstrate the ability to apply knowledge through collaborative learning and teamwork.

Career Opportunities

- Administrative Assistant
- Attorney
- Campaign Aide/Manager
- Diplomat
- FBI/CIA Agent
- Foreign Service Officer
- International Relations Specialist
- Journalist
- Labor Organizer/Union Representative
- Law Clerk
- Legislative Advocate/Lobbyist
- Legislative Aide
- Paralegal
- Legal Assistant
- Police Officer
- Politician
- Polling Specialist
- Private Investigator
- Public Administrator
- Public Information Officer
- Research Specialist
- Secret Service Agent
- Teacher

Features

The political science major offers a Pre-Law option for students planning a career in law. The Public Affairs and Administration option is designed to meet the needs of students contemplating a career in public administration. The Political Science department offers a major and a minor. Special features of the Political Science major include: the Intercollegiate Model United Nations Club; field trips to Sacramento and to State and Federal courts; guest political speakers; pre-law advising; local, Sacramento, Washington, and political campaign internships; and the Political Science Club.

Preparation

For Advanced Placement course equivalencies, see Registration.

Major Requirements (B.A.) 56-64 units

The B.A. degree requires a total of 180 units.

- The core major consists of 20 units;
- the electives for the non- Option consists of 36 units;
- the Pre-Law Option consists of 44 units.
- the Public Affairs and Administration Option consists of 41 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult an advisor in your major department for clarification and interpretation of your major requirements.

Shared Core (20 units)

All Political Science majors are required to complete the following shared core curriculum:

- POSC 1201 - American Political Institutions *Units: 4*
- POSC 1202 - Public Policy/California Politics *Units: 4 or Public Affairs and Administration Option students may substitute: ECON 2302 Principles of Macroeconomics Units: 4*
- POSC 3030 - The Study of Political Science *Units: 4*
- POSC 4910 - Political Science Seminar *Units: 4*
- **And 4 units from the American Government and Politics courses**
Note: The Traditional Political Science track and the Pre-Law option students may choose from the Public Policy and Administration courses (listed below) to fulfill these 4 units.
- POSC 3111 - The American Presidency *Units: 4*
- POSC 3113 - Political Internship *Units: 2-4*
- POSC 3115 - United States Congress *Units: 4*
- POSC 3120 - State and Local Politics and Government *Units: 4*
- POSC 3130 - Urban Politics *Units: 4*
- POSC 3150 - Politics of California *Units: 4*
- POSC 3300 - Voting and Public Opinion *Units: 4*
- POSC 3310 - Political Parties and Campaigning *Units: 4*
- POSC 3330 - Interest Groups, Lobbying, and Political Reform *Units: 4*
- POSC 3333 - Ethnic and Minority Politics *Units: 4*
- POSC 3335 - African American Politics *Units: 4*
- POSC 3336 - Asian American Politics *Units: 4*
- POSC 3340 - Women and Politics *Units: 4*
- POSC 3360 - Culture and Politics in the United States *Units: 4*
- POSC 3375 - Practical Politics *Units: 4*

Public Policy and Administration Courses

- POSC 3419 - Labor Policy and Law *Units: 4*
- POSC 3522 - The Politics and Law of New Genetic Technologies *Units: 4*
- POSC 3800 - Public Policy Analysis *Units: 4*
- POSC 4171 - Public Policy and the Environment *Units: 4*

- POSC 4445 - Bureaucratic Politics and Administrative Law *Units: 4*

Option Requirements

Political Science offers three choices for students to complete the major:

Students can complete the required units for the major by choosing one of the options below:

- Political Science, Pre-Law Option, B.A.
- Political Science, Public Affairs and Administration Option, B.A.
- Political Science, B.A. (*Traditional Political Science Major*)

Pre-Law Option (44 units)

Pre-Law Students

The study of law is a postgraduate professional program, requiring three years of full-time study beyond the completion of the bachelor's degree. No specific pre-law undergraduate program is required for admission to law schools. However, students wishing to focus on legal studies at Cal State East Bay, may complete the Pre-Law option in the Political Science major.

Students intending to enter law school commonly complete undergraduate majors in political science, economics, business, or history. The prelaw student's undergraduate plan of study should include among its objectives a facility in the proper use of written and spoken English, a sampling of undergraduate law courses, one or more critical/logical thinking courses, and a basic understanding of government and economics. Some law schools recommend that students take a basic accounting course, particularly if they are interested in business or tax law.

Students planning to enter law school should consult a pre-law advisor. Dr. David Baggins of the Department of Political Science, who is an attorney, serves as the university pre-law advisor. Several other departments also have pre-law advisors.

Most accredited law schools require that applicants complete the Law School Admission Test. The LSAT is typically given in September, December, February, and June at one or more testing centers in the Bay Area. Pre-law students should obtain LSAT registration materials and law school applications early in their senior year. Students can access information on the LSAT by viewing <http://www.lsac.org>. The Political Science department library has a copy of the Law School Guidebook and many law school catalogs.

Students taking this option will focus their coursework in legal studies. Completion of this program will lead to a B.A. degree, major in Political Science with an option in Pre-Law. The total required for the major with Pre-Law option is 64 units. The total required for the B.A. degree is 180 units.

Two quarters before you expect to graduate, complete a major check sheet and inquire about other requirements for graduation. The following is an outline indicating specific courses and options necessary for completing the option in pre-law.

Foundation Courses

Twelve (12) units required:

- One lower division course (below) or one upper division course from the International Relation group listed above.
- One lower division course (below) or one upper division course from the Comparative Government group listed above.
- One upper division course from the Political Theory group listed above.

Lower Division Courses:

- POSC 1171 - Environmental Politics *Units: 4*
- POSC 1201 - American Political Institutions *Units: 4*
- POSC 1202 - Public Policy/California Politics *Units: 4*
- POSC 1500 - Conflict in World Politics *Units: 4*
- POSC 2002 - The Golden State? Modern Politics, Economics and Culture in California *Units: 4*

The Political and Policy Context of the Law

Choose 12 units from the following:

- HSC 3350 - Health Legislation and Government Programs *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*
- Or any courses not already taken from *American Government and Politics* or *Public Policy and Administration* courses listed above.

Public Law

Any 20 units recognized by the Department as a public law class. These include:

- ACCT 2701 - Legal Environment of Business *Units: 4*
- POSC 3410 - Law and Society *Units: 4*
- POSC 3417 - Survey of American Law *Units: 4*
- POSC 3441 - American Constitutional Law: Government *Units: 4*
- POSC 3442 - American Constitutional Law: Rights *Units: 4*
- POSC 3460 - Environmental Law *Units: 4*
- POSC 3470 - International Law *Units: 4*
- POSC 3503 - Philosophy of Law *Units: 4*
- POSC 4445 - Bureaucratic Politics and Administrative Law *Units: 4*
- Or any business law class.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Political Science, Public Affairs and Administration Option, B.A.

Department & Faculty Information

Political Science (B.A.) 180 units

Program Description

The political science curriculum helps students to acquire an organized body of knowledge about government and to think analytically about public policy, law, and politics. The political science degree prepares graduates to enter careers in government, public service, public administration, public policy analysis, legislative advocacy, business, international relations, and teaching. Many Cal State East Bay political science graduates continue their academic careers in law school, or in the pursuit of graduate degrees in political science or public policy analysis.

Student Learning Outcomes

Students graduating with a B.A. in Political Science will be able to:

1. develop and articulate an understanding of democratic theory and practice and gain practical experience in politics, public policy, and civic engagement.
2. demonstrate through oral and written competency, an understanding of the theories, concepts, empirical content, and research agendas of the fields of political science with advanced understanding in the selected option.
3. demonstrate an understanding of political culture in the U.S. and around the world including the economic, ideological, ethnic and cultural groups and movements that engage the political process.
4. articulate career goals, demonstrate knowledge of how to achieve those goals, and produce evidence of working to achieve the goals.
5. demonstrate the ability to apply knowledge through collaborative learning and teamwork.

Career Opportunities

- Administrative Assistant
- Attorney
- Campaign Aide/Manager
- Diplomat
- FBI/CIA Agent
- Foreign Service Officer
- International Relations Specialist
- Journalist
- Labor Organizer/Union Representative
- Law Clerk

- Legislative Advocate/Lobbyist
- Legislative Aide
- Paralegal
- Legal Assistant
- Police Officer
- Politician
- Polling Specialist
- Private Investigator
- Public Administrator
- Public Information Officer
- Research Specialist
- Secret Service Agent
- Teacher

Features

The political science major offers a Pre-Law option for students planning a career in law. The Public Affairs and Administration option is designed to meet the needs of students contemplating a career in public administration. The Political Science department offers a major and a minor. Special features of the Political Science major include: the Intercollegiate Model United Nations Club; field trips to Sacramento and to State and Federal courts; guest political speakers; pre-law advising; local, Sacramento, Washington, and political campaign internships; and the Political Science Club.

Preparation

For Advanced Placement course equivalencies, see Registration.

Major Requirements (B.A.) 56-64 units

The B.A. degree requires a total of 180 units.

- The core major consists of 20 units;
- the electives for the non- Option consists of 36 units;
- the Pre-Law Option consists of 44 units.
- the Public Affairs and Administration Option consists of 41 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult an advisor in your major department for clarification and interpretation of your major requirements.

Shared Core (20 units)

All Political Science majors are required to complete the following shared core curriculum:

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- POSC 3030 - The Study of Political Science *Units: 4*

- POSC 4910 - Political Science Seminar *Units: 4*
- **And 4 units from the American Government and Politics courses**
Note: The Traditional Political Science track and the Pre-Law option students may choose from the Public Policy and Administration courses (listed below) to fulfill these 4 units.
- POSC 3111 - The American Presidency *Units: 4*
- POSC 3113 - Political Internship *Units: 2-4*
- POSC 3115 - United States Congress *Units: 4*
- POSC 3120 - State and Local Politics and Government *Units: 4*
- POSC 3130 - Urban Politics *Units: 4*
- POSC 3150 - Politics of California *Units: 4*
- POSC 3300 - Voting and Public Opinion *Units: 4*
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- POSC 3333 - Ethnic and Minority Politics *Units: 4*
- POSC 3335 - African American Politics *Units: 4*
- POSC 3336 - Asian American Politics *Units: 4*
- POSC 3340 - Women and Politics *Units: 4*
- POSC 3360 - Culture and Politics in the United States *Units: 4*
- POSC 3375 - Practical Politics *Units: 4*

Public Policy and Administration Courses

- POSC 3419 - Labor Policy and Law *Units: 4*
- POSC 3522 - The Politics and Law of New Genetic Technologies *Units: 4*
- POSC 3800 - Public Policy Analysis *Units: 4*
- POSC 4171 - Public Policy and the Environment *Units: 4*
- POSC 4445 - Bureaucratic Politics and Administrative Law *Units: 4*

Option Requirements

Political Science offers three choices for students to complete the major:

Students can complete the required units for the major by choosing one of the options below:

- Political Science, Pre-Law Option, B.A.
- Political Science, Public Affairs and Administration Option, B.A.
- Political Science, B.A. (*Traditional Political Science Major*)

Public Affairs and Administration Option (41 units)

Students taking this option will concentrate their coursework in American political institutions, public policy, and administrative processes. Completion of this program will lead to a B.A. degree major in Political Science, with an option in Public Affairs and Administration.

Since several courses overlap (ECON 2301, ECON 2302, ACCT 2251, MGMT 4500), the department encourages students who pursue this option to consider combining it with the Minor in Business Administration.

The major with this option consists of 61 units; the B.A. requires a total of 180 units. The course requirements for this option are as follows:

Lower Division

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
or
- STAT 2010 - Elements of Statistics for Business and Economics *Units: 5*

Upper Division

Public Affairs and Administrative Process (12 units)

- ECON 3370 - Public Sector Economics *Units: 4*
- POSC 3800 - Public Policy Analysis *Units: 4*
- POSC 4445 - Bureaucratic Politics and Administrative Law *Units: 4*
- PUAD 4800 - Public Administration and Society *Units: 4*
- PUAD 4830 - Organization Theory and Human Behavior *Units: 4*

Political Institutions and Processes (4 units)

- An additional course from the *American Government and Politics* group not already taken (see group listing above).

Public Affairs and Public Policy (8 units)

- ECON 3375 - Public Choice: The Economics of Politics *Units: 4*
- HSC 3350 - Health Legislation and Government Programs *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*
- POSC 3505 - American Foreign Policy *Units: 4*
- Or any course from the *Public Policy and Administration* group not already taken. (see group listing above).

Service Requirement (4 units)

May be fulfilled by taking:

- POSC 3113 - Political Internship *Units: 2-4*
- POSC 3898 - Cooperative Education *Units: 1-4*
- Or another service course approved by the department chair.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth

requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

Political Science Minor

Department & Faculty Information

Minor Requirements (24 units)

The minor consists of 24 units of Political Science courses of which at least 16 units must be in upper division. The purpose of the Minor in Political Science is to provide a general background in political science to complement majors in such areas as business administration, environmental studies, science, humanities, and the other social sciences. The student should consult with a Political Science department advisor or the chairperson in selecting courses.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Psychology

The Department Office is located on the 2nd Floor of the South Science (SC-S) building, Room 229

Open 8:30 a.m. - 5:00 p.m., Monday - Friday

Dept. Phone: (510) 885-3484

Faculty

Professors Emeriti

John D. Lovell, Ph.D. University of California, Los Angeles

Michael E. Patch, Ph.D. University of California, Los Angeles

Professors

Dong-Won Choi, Ph.D. University of Illinois, Urbana-Champaign

Marvin R. Lamb, Ph.D. University of California, Berkeley

David A. Sandberg, Ph.D. Ohio University

Mary Kay Stevenson, Ph.D. University of South Carolina, Columbia

Associate Professors

Emily Cleveland, Ph.D. Clark University

David Fencsik (Chair), Ph.D. University of Michigan

Assistant Professors

Brian Gonsalves, Ph.D. Northwestern University

Murray Horne, Ph.D. Cardiff University (United Kingdom)

Kristin Layous, Ph.D. University of California, Riverside

Amanda Morrison, Ph.D. Temple University

Department Statement

Psychology is the science of behavior and mental processes. Many psychologists work with people to understand how they think, respond to stress, learn and forget, develop into unique personalities, and interact with one another. Others study the behavior and nervous systems of animals in order to find general principles that apply across species. Psychologists apply their knowledge to perform therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industry, business, and other professions.

Advising	Psychology Student Organizations	Careers	Graduate School
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Bachelor of Arts

Psychology, B.A.

Department & Faculty Information

Psychology (B.A.) 180 units

Program Description

Psychology is the science of behavior and mental processes. Many psychologists work primarily with people to understand how they think, respond to stress, learn and forget, develop into unique personalities, and interact with one another. Others study the behavior and nervous systems of animals in order to find general principles that apply across species. Psychologists apply their knowledge to perform therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industry, business, and other professions.

The Psychology department offers a major in both the Bachelor of Arts (B.A.) and the Bachelor of Science (B.S.) degrees. These are basic programs; to become a "psychologist" requires graduate training.

The B.A. program is appropriate for most psychology students. It provides a basic understanding of human behavior and motivation that is valuable in many careers in business, government, and education. It also provides the background expected for entry into graduate programs in clinical psychology, counseling psychology, school psychology, health psychology, social psychology, or experimental psychology.

Student Learning Outcomes

Students graduating with a B.A. in Psychology will be able to:

1. think scientifically and employ sound scientific methodology;
2. speak and write clearly about the content and theory of the field of psychology;
3. apply psychological principles and prepare for careers.

Career Opportunities

- Clinical/Counseling/Child Psychologist
- Community Mental Health Employee
- Experimental Psychologist
- Human Service Worker
- Police/Probation Officer
- Recreation Worker

- School Counselor
- Social Worker
- Special Education Teacher
- Substance Abuse Counselor

Features

The Psychology Department's facilities include a fully equipped computer lab, an animal lab, and several labs for studying human behavior. These facilities support an unusual and important characteristic of the department - its emphasis on hands-on student involvement in the study of human and animal behavior through participation in laboratory courses, faculty research, and internships.

Both the Psychology Club and Psi Chi (national honor society in psychology) provide opportunities for students to get together to hear speakers and to discuss topics such as career and graduate school opportunities.

All courses required for the Psychology B.A. are offered in the evening program over each two-year cycle. However, the range of choices and flexibility of scheduling is more limited in the evening program.

Preparation

For Advanced Placement course equivalencies, see Registration chapter.

Major Requirements (B.A.) 72 units

The B.A. degree requires a total of 180 units.

- The core major consists of 72 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult an advisor in your major department for clarification and interpretation of your major requirements.

- *Some courses may also be used to satisfy a General Education Requirement*
- *No major courses may be taken as CR/NC unless specifically noted.*

Core Requirements (36 units)

Choose one (1) course from the following group:

- PSYC 1000 - General Psychology *Units: 5*
- PSYC 1001 - General Psychology and Society *Units: 5*
- PSYC 1002 - General Psychology of Music and Mind *Units: 5*
- PSYC 1005 - General Psychology for Healthier Living *Units: 5*

And the following 31 units are required:

- BIOL 1001 - Introduction to Biology *Units: 4*
- BIOL 1002 - Introduction to Biology Lab *Units: 1*
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*
- PSYC 2020 - Methods of Investigation in Psychology *Units: 4*
- PSYC 3100 - Experimental Psychology *Units: 5*
- PSYC 4200 - Conditioning and Learning *Units: 4*
- PSYC 4320 - Physiological Psychology *Units: 4*

Breadth Requirements (20 units)

One from each group required:

Testing / Survey and Test Construction / Individual Differences / Applied Measurement / Decision Theory (4 units)

- PSYC 3200 - Psychological Tests *Units: 4*
- PSYC 3210 - Principles of Survey and Test Construction *Units: 4*
- PSYC 3220 - Psychology of Individual Differences *Units: 4*
- PSYC 3230 - Applied Measurement *Units: 4*
- PSYC 3240 - Decision Theory *Units: 4*

Social / Developmental / Personality (4 units)

- PSYC 3500 - Social Psychology *Units: 4*
- PSYC 4420 - Developmental Psychology *Units: 4*
- PSYC 4610 - Psychology of Personality *Units: 4*

Cognition / Perception / Psycholinguistics (4 units)

- PSYC 4220 - Cognitive Processes *Units: 4*
- PSYC 4345 - Sensation and Perception *Units: 4*
- PSYC 4740 - Psycholinguistics *Units: 4*

Comparative / Heredity / Psychopharmacology / Cognitive Neuroscience (4 units)

- PSYC 4310 - Comparative Psychology *Units: 4*
- PSYC 4350 - Heredity and Behavior *Units: 4*
- PSYC 4360 - Psychopharmacology *Units: 4*
- PSYC 4370 - Cognitive Neuroscience *Units: 4*

Theories of Learning / History and Systems / Theories of Personality (4 units)

- PSYC 4210 - Theories of Learning *Units: 4*
- PSYC 4390 - History and Systems of Psychology *Units: 4*
- PSYC 4620 - Theories of Personality *Units: 4*

Laboratory Requirements (4 units)

Any two required from those listed below. Although courses in this series may be repeated for unit credit, *two different* courses are required in the Psychology major.

- PSYC 4800 - Human Learning and Cognition Laboratory *Units: 2*
- PSYC 4801 - Learning and Motivation Laboratory *Units: 2*
- PSYC 4802 - Sensation and Perception Laboratory *Units: 2*
- PSYC 4803 - Physiological Psychology Laboratory *Units: 2*
- PSYC 4804 - Social and Personality Laboratory *Units: 2*
- PSYC 4805 - Comparative Psychology Laboratory *Units: 2*
- PSYC 4806 - Developmental Psychology Laboratory *Units: 2*
- PSYC 4807 - Clinical Psychology Laboratory *Units: 2*
- PSYC 4808 - Industrial Psychology Laboratory *Units: 2*

Elective Requirements (12 units)

Twelve additional units of permissible upper division (3000 or 4000 level) psychology courses; or STAT 4000 Analysis of Variance in the Behavioral Sciences and eight additional units of permissible upper division psychology courses. A maximum of four units from PSYC 4900 Independent Study or Laboratory Requirement courses may be used toward satisfying this requirement. Course descriptions indicate whether an upper division course is permissible for credit toward the major.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Bachelor of Science

Psychology, Ergonomics and Human Factors Option, B.S.

Department & Faculty Information

Psychology (B.S.) 180 units

Program Description

Psychology is the science of behavior and mental processes. Many psychologists work primarily with people to understand how they think, respond to stress, learn and forget, develop into unique personalities, and interact with one another. Others study the behavior and nervous systems of animals in order to find general principles that apply across species. Psychologists apply their knowledge to perform therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industry, business, and other professions.

The Psychology department offers a major in both the Bachelor of Arts (B.A.) and the Bachelor of Science (B.S.) degrees. These are basic programs; to become a "psychologist" requires graduate training.

The B.S. programs are designed for specialized purposes. Students in the B.S. program must select one of the two options in that program: Industrial/Organizational Psychology or Ergonomics and Human Factors. The option in Industrial/Organizational Psychology provides preparation for careers related to business, with an emphasis on personnel management. The option in Ergonomics and Human Factors provides preparation for careers in the design of work environments to take account of human limitations and strengths, for example, the design of equipment (computers, aircraft, automobiles) or the design of industrial procedures.

Student Learning Outcomes

Students graduating with a B.S. in Psychology will be able to:

1. think scientifically and employ sound scientific methodology;
2. speak and write clearly about the content and theory of the field of psychology;
3. apply psychological principles and prepare for careers.

Career Opportunities

- Advertising Account Executive
- Business Executive
- Career Counselor
- Ergonomics Consultant
- Employee Counselor and Trainer
- Human Factors Engineer
- Human Resource Specialist
- Personnel Representative
- Program Evaluator
- Public Relations Specialist

Features

The Psychology Department's facilities include a fully equipped computer lab, an animal lab, and several labs for studying human behavior. These facilities support an unusual and important characteristic of the department - its emphasis on hands-on student involvement in the study of human and animal behavior through participation in laboratory courses, faculty research, and internships.

Both the Psychology Club and Psi Chi (national honor society in psychology) provide opportunities for students to get together to hear speakers and to discuss topics such as career and graduate school opportunities.

All courses required for the Psychology B.S. are offered in the evening program over each two-year cycle. However, the range of choices and flexibility of scheduling is more limited in the evening program. Courses required for the Psychology B.S. occasionally may be offered on an evening schedule, but not regularly. The department recommends the Psychology B.A. for students who take only evening classes.

Preparation

For Advanced Placement course equivalencies, see Registration & Enrollment chapter.

Major Requirements (B.S.) 75-94 units

The B.S. degree requires a total of 180 units.

- The Core Requirements of the major consists of 22 units, plus
- The Option Requirements of the major consist of the following units:
 - the Ergonomics and Human Factors Option consists of 64-72 units;
 - the Industrial/Organizational Psychology Option consists of 53 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).

Note: Please consult an advisor in your major department for clarification and interpretation of your major requirements.

- *Some courses may also be used to satisfy a General Education Requirement,*
- *No major courses may be taken as CR/NC unless specifically noted.*

Core Courses (22 units)

The following requirements are common to all options in the Psychology B.S. degree.

Lower Division Core

Complete 9 units from:

Choose one (1) course from the following group:

- PSYC 1000 - General Psychology *Units: 5*
- PSYC 1001 - General Psychology and Society *Units: 5*
- PSYC 1002 - General Psychology of Music and Mind *Units: 5*
- PSYC 1005 - General Psychology for Healthier Living *Units: 5*

Plus complete the following course:

- PSYC 2020 - Methods of Investigation in Psychology *Units: 4*

Upper Division Core

Complete 9 units from:

- PSYC 3100 - Experimental Psychology *Units: 5*
- PSYC 4200 - Conditioning and Learning *Units: 4*

Advanced Laboratories Core

Choose two *different* courses for 4 units from the following:

- PSYC 4800 - Human Learning and Cognition Laboratory *Units: 2*
- PSYC 4801 - Learning and Motivation Laboratory *Units: 2*
- PSYC 4802 - Sensation and Perception Laboratory *Units: 2*
- PSYC 4803 - Physiological Psychology Laboratory *Units: 2*
- PSYC 4804 - Social and Personality Laboratory *Units: 2*
- PSYC 4805 - Comparative Psychology Laboratory *Units: 2*
- PSYC 4806 - Developmental Psychology Laboratory *Units: 2*
- PSYC 4807 - Clinical Psychology Laboratory *Units: 2*
- PSYC 4808 - Industrial Psychology Laboratory *Units: 2*

Option Requirements

The Psychology B.S. major must choose one (1) of two options to complete the major requirements:

- Psychology, Ergonomics and Human Factors Option, B.S.
- Psychology, Industrial/Organizational Psychology Option, B.S.

Ergonomics and Human Factors Option (64-72 units)

Students in this option are urged to complete a minor in Statistics, Computer Science, Mathematics, or Physics. Courses can be counted simultaneously toward a minor and a major.

Note:

- *Students with appropriate background can go directly to MATH 1304. These students are excused from MATH 1300.*
- *MATH 2304 is prerequisite to PHYS 1003.*

Computer Science & Mathematics Requirements

Complete 4-8 units.

Note: Students with appropriate background can go directly to MATH 1304 with department approval.

- CS 1160 - Introduction to Computer Science I *Units: 4*
- MATH 1300 - Trigonometry and Analytic Geometry *Units: 4*

Physics Requirements

Complete 12-15 units. Choose one (1) of the two series:

General Physics Series

- PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations *Units: 5*
- PHYS 1002 - General Physics: Thermodynamics and Optics *Units: 5*
- PHYS 1003 - General Physics: Electromagnetism *Units: 5*

or

Introductory Physics Series

- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PHYS 2703 - Introductory Physics: Light and Modern Physics *Units: 4*

Psychology Requirements

Complete 32 units from:

Choose 4 units from:

- PSYC 3240 - Decision Theory *Units: 4*
- PSYC 4220 - Cognitive Processes *Units: 4*
- PSYC 4740 - Psycholinguistics *Units: 4*

Choose 4 units from:

- PSYC 3400 - Ergonomics and Human Factors *Units: 4*
- PSYC 3190 - Human Factors Engineering *Units: 4*

Choose 4 units from:

- PSYC 3500 - Social Psychology *Units: 4*
- PSYC 3540 - Groups and Organizations *Units: 4*

Complete all of the following:

- PSYC 3420 - Stress and Coping *Units: 4*
- PSYC 4320 - Physiological Psychology *Units: 4*
- PSYC 4345 - Sensation and Perception *Units: 4*
- PSYC 4500 - Industrial Psychology *Units: 4*
- PSYC 4900 - Independent Study *Units: 1-4 (4 units required) Approved Internship*

Statistics Requirements

Complete 8-9 units. Choose one (1) of the two series:

Statistics Series #1

- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*

or

Statistics Series #2

Students pursuing the Ergonomics and Human Factors option, who choose the STAT 3502 and 3503 series may use those courses instead of STAT 3010 to fulfill the PSYC 3100 prerequisites.

- STAT 3502 - Statistical Inference I *Units: 4*
- STAT 3503 - Statistical Inference II *Units: 4*

Elective Courses

Choose a focus group for an additional 8 units (2 courses from the same group):

Computer Science Group

- CS 2360 - Introduction to Computer Science II *Units: 4*
- Four additional units in CS courses

Engineering Group

- INDE 3020 - Work Design and Measurement *Units: 4*
- Four additional units in either INDE or ENGR courses

Mathematics Group

- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*

Psychology Group

- Eight units of permissible upper division psychology courses in addition to those used to fulfill the other requirements in this major.

Statistics Group

- Eight units of upper division statistics courses, not including: STAT 3010, STAT 3502, or STAT 3503.

Course Descriptions

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Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California

state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Psychology, Industrial/Organizational Psychology Option, B.S.

Department & Faculty Information

Psychology (B.S.) 180 units

Program Description

Psychology is the science of behavior and mental processes. Many psychologists work primarily with people to understand how they think, respond to stress, learn and forget, develop into unique personalities, and interact with one another. Others study the behavior and nervous systems of animals in order to find general principles that apply across species. Psychologists apply their knowledge to perform therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industry, business, and other professions.

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Students graduating with a B.S. in Psychology will be able to:

- think scientifically and employ sound scientific methodology;
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- Business Executive
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- Ergonomics Consultant
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- Human Factors Engineer
- Human Resource Specialist
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- Program Evaluator
- Public Relations Specialist

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Major Requirements (B.S.) 75-94 units

The B.S. degree requires a total of 180 units.

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- The Option Requirements of the major consist of the following units:
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- the Industrial/Organizational Psychology Option consists of 53 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).

Note: Please consult an advisor in your major department for clarification and interpretation of your major requirements.

- *Some courses may also be used to satisfy a General Education Requirement,*
- *No major courses may be taken as CR/NC unless specifically noted.*

Core Courses (22 units)

The following requirements are common to all options in the Psychology B.S. degree.

Lower Division Core

Complete 9 units from:

Choose one (1) course from the following group:

- PSYC 1000 - General Psychology *Units: 5*

- PSYC 1001 - General Psychology and Society *Units: 5*
- PSYC 1002 - General Psychology of Music and Mind *Units: 5*
- PSYC 1005 - General Psychology for Healthier Living *Units: 5*

Plus complete the following course:

- PSYC 2020 - Methods of Investigation in Psychology *Units: 4*

Upper Division Core

Complete 9 units from:

- PSYC 3100 - Experimental Psychology *Units: 5*
- PSYC 4200 - Conditioning and Learning *Units: 4*

Advanced Laboratories Core

Choose two *different* courses for 4 units from the following:

- PSYC 4800 - Human Learning and Cognition Laboratory *Units: 2*
- PSYC 4801 - Learning and Motivation Laboratory *Units: 2*
- PSYC 4802 - Sensation and Perception Laboratory *Units: 2*
- PSYC 4803 - Physiological Psychology Laboratory *Units: 2*
- PSYC 4804 - Social and Personality Laboratory *Units: 2*
- PSYC 4805 - Comparative Psychology Laboratory *Units: 2*
- PSYC 4806 - Developmental Psychology Laboratory *Units: 2*
- PSYC 4807 - Clinical Psychology Laboratory *Units: 2*
- PSYC 4808 - Industrial Psychology Laboratory *Units: 2*

Option Requirements

The Psychology B.S. major must choose one (1) of two options to complete the major requirements:

- Psychology, Ergonomics and Human Factors Option, B.S.
- Psychology, Industrial/Organizational Psychology Option, B.S.

Industrial / Organizational Psychology Option (53 units)

Students in this option are urged to complete a minor in Statistics, Computer Science, Mathematics, or Physics. Courses can be counted simultaneously toward a minor and a major.

Psychology Requirements

Complete 20 units from:

- PSYC 3210 - Principles of Survey and Test Construction *Units: 4*
- PSYC 3400 - Ergonomics and Human Factors *Units: 4*

- PSYC 3500 - Social Psychology *Units: 4*
- PSYC 3540 - Groups and Organizations *Units: 4*
- PSYC 4220 - Cognitive Processes *Units: 4*

Statistics Requirements

Complete 9 units from:

- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*

Area Requirements

Psychological Theory Applied in Industrial Specialties: Assessment, Selection, Performance Appraisal and Work Motivation (8 units)

Select 8 units from the following:

- PSYC 3200 - Psychological Tests *Units: 4*
- PSYC 3220 - Psychology of Individual Differences *Units: 4*
- PSYC 3230 - Applied Measurement *Units: 4*
- PSYC 3240 - Decision Theory *Units: 4*
- PSYC 3250 - Behavior Modification *Units: 4*
- PSYC 4300 - Motivation *Units: 4*
- PSYC 4500 - Industrial Psychology *Units: 4*

Psychological Theory Applied in Organizational Specialties: Group Processes, Cultural Diversity, Negotiation, and Leadership (8 units)

Select 8 units from the following:

- PSYC 3520 - Interpersonal Processes *Units: 4*
- PSYC 3550 - Social Influence and Change *Units: 4*
- PSYC 3560 - Psychology of Negotiation and Conflict Resolution *Units: 4*
- PSYC 3600 - The Impact of Culture on Social Psychology *Units: 4*

Elective Requirements

Select 8 units from any combination of courses listed below. (Note: At least one Management course is recommended.)

- Permissible upper division Psychology (PSYC) courses (excludes PSYC courses whose course descriptions indicate that they may NOT be used to satisfy a Psychology major requirement).
- MGMT 3600 - Theories of Management *Units: 4*
- MGMT 3610 - Strategic Human Resources Management *Units: 4*
- MGMT 3680 - Employee Relations and Employment Law *Units: 4*
- MGMT 4615 - Compensation and Reward Systems *Units: 4*
- MGMT 4618 - Human Resources Training and Development *Units: 4*
- STAT 3510 - Sampling Procedures for Surveys *Units: 4*
- STAT 3900 - Data Analysis Using Statistical Packages *Units: 4*

- STAT 3910 - Statistical Software Usage *Units: 4*
- STAT 4000 - Analysis of Variance in the Behavioral Sciences *Units: 4*
- STAT 4515 - Applied Multivariate Analysis *Units: 4*
- STAT 4610 - Introduction to Nonparametric Statistical Methods *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

Psychology Minor

Department & Faculty Information

Minor Requirements (29-35 units)

The minor in Psychology is designed to provide a general background in psychology to complement training for careers in business and industry, biology, the medical professions, law or criminology, communication, and many other professions. See a psychology department advisor for help in selecting courses to complement your program.

One of the following courses:

- PSYC 1000 - General Psychology *Units: 5*
- PSYC 1001 - General Psychology and Society *Units: 5*
- PSYC 1005 - General Psychology for Healthier Living *Units: 5*

One of the following courses:

- PSYC 1100 - Critical Thinking in Psychology *Units: 4*
- PSYC 2020 - Methods of Investigation in Psychology *Units: 4*

Twenty additional units

Twenty additional units selected from courses meeting the Elective Requirements in the description of the B.A. major, or PSYC 3100 plus 12 additional units from courses meeting these Elective Requirements. (Notice that PSYC 3100 has 8-9 additional units of prerequisites. See the course description.)

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Public Affairs and Administration

The Department Office is located on the 4th Floor of the Meiklejohn Hall building, Room 4122/4128

Office Hours: 8:00 a.m. - 6:30 p.m., Monday through Thursday

Dept Phone: (510) 885-3282

Faculty

Professors

Jennifer L. Eagan, Ph.D. Duquesne University

Toni E. Fogarty, Ph.D. University of California, Berkeley

O. Jombo ("Jay") Umeh (Chair), Ph.D. Texas Tech University

Associate Professor

Michael Y. Moon, Ph.D. Teachers College, Columbia University

Assistant Professors

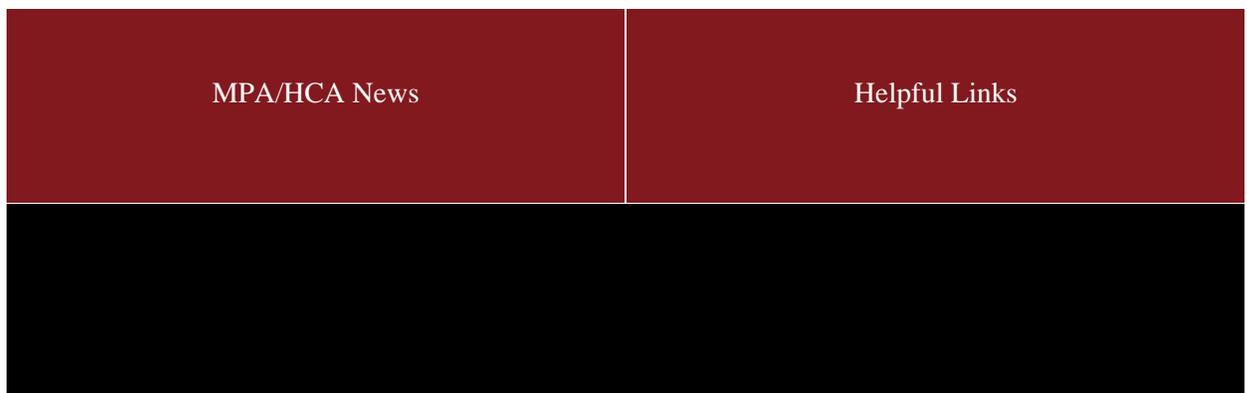
Nicole Diggs, Ph.D. Florida Atlantic University

Joyce Keyes Williams, Ph.D. State University of New York

Department Statement

Public Administration is a rich and challenging multi-disciplinary field drawing from sociology, anthropology, philosophy, psychology, economics, and urban and organizational studies. The master's degree program provides students with a grounding in major philosophical and social science thinking about the nature of organizations; it helps students to build the intellectual and practical tools they will need to become effective organizational leaders in the public and non-profit sectors. The M.P.A. program is designed to increase the personal and professional effectiveness of people working in public, voluntary, and private organizations. The purpose of the program is to prepare individuals for leadership positions in various organizations with a sense of commitment to social purpose, the public interest, and effective public problem-solving.

The MS-HCA program seeks to develop professionals who understand how to manage non-profit, for-profit, and voluntary health care organizations in effective and innovative ways. The program focuses on the need for health care administrators to be continuous learners, critical thinkers, and ethical practitioners by recognizing the multiply-constructed nature of human, social, and organizational realities and the complex relationships between the system of health providers and the needs of the community.



Master of Science

Health Care Administration, M.S.

Department & Faculty Information

Health Care Administration (M.S.) 48 units

Program Description

The M.S. in Health Care Administration (MS-HCA) program has been designed to provide working health care professionals with the knowledge, skill sets, and abilities needed to be effective health care administrators and managers. Health care delivery is undergoing rapid growth and change in the United States and around the world, a change that has accelerated in the 21st century. As a result, the responsibilities of health care administrators and managers are continuously being redefined. In this dynamic environment, organizations must manage for continuous improvement and maintain flexibility to respond to the latest challenges. This underscores the constant need for health care professionals to keep pace with new knowledge and gain new skills.

The MS-HCA program seeks to develop professionals who understand how to manage non-profit, for-profit, and voluntary health care organizations in effective and innovative ways and who can help health

care organizations successfully meet the challenges of a rapidly changing environment. Students in the MS-HCA program acquire the analytical skills needed to explore new models of health care delivery and organizational design. They also develop the leadership skills needed to discover and implement creative solutions to problems in the current health care system.

Student Learning Outcomes

The Health Care Leadership Alliance (HLA), a consortium of major professional health care associations, has identified five competency domains in which all health care administrators and managers should have proficiency for workplace effectiveness: communication and relationship management, leadership, professionalism, knowledge of the health care environment, and business skills and knowledge. The MSHCA program has adopted these five competency domains as its program learning outcomes.

Students who graduate with an M.S. in Health Care Administration will be able to:

- Communicate clearly and concisely with internal and external customers, to establish and maintain relationships, and to facilitate constructive interactions with individuals and groups
- Inspire individual and organizational excellence, to create and attain a shared vision, and to successfully manage change to attain the organization's strategic ends and successful performance
- Align personal and organizational conduct with ethical and professional standards that include a responsibility to the patient and community, a service orientation, and a commitment to lifelong learning and improvement
- Demonstrate an understanding of the health care system and the environment in which health care managers and providers function
- Apply business principles to the health care environment; basic business principles include financial management, human resource management, organizational dynamics and governance, strategic planning and marketing, information management, risk management, and quality improvement

Career Opportunities

The need for health services managers and administrators is growing nationally and even more so in California. According to the US Department of Labor, health care is one of the largest industries in the US, and the second largest employer, with more than 11 million jobs. According to the Centers for Medicare & Medicaid Services (CMS), the average annual health spending growth (6.1%) is anticipated to outpace average annual growth in the overall economy (4.4%) for the projection period of 2009-2019. By 2019, national health spending is expected to reach \$4.5 trillion and comprise 19.3% of GDP.

While clinical care personnel are the frontline of the US health care system, health services managers and administrators play a significant role. They plan, direct, coordinate, and supervise medicine and health services in hospitals, clinics, managed care organizations, public health agencies, and other health care organizations. According to the Department of Labor's Occupational Outlook Handbook, employment in this field is expected to increase 22% from 2010 to 2020, faster than the average for all occupations, with a projected need of 99,400 additional positions and an estimated median annual wage of \$80,200. According to the California Employment Development Department (EDD), the projected growth in California is 18% for the projection period of 2006-2016, with an estimated median annual wage of \$95,168. A master's degree in health care administration, public health, health services management, or a similar degree is the standard credential for most positions in this field.

Special Features

The MS-HCA is designed for working adults and courses generally meet one night per week. No more than two courses per quarter may be completed in the MS-HCA program. Most, but not all, of the courses are offered in a hybrid format where the majority of the course sessions are in-person and some are fully online. Students are admitted as a cohort and follow a degree completion roadmap designed for that cohort.

Admission

The MS-HCA degree program is open to applicants planning a career or advancing a career in the health care field who have a baccalaureate degree from an accredited institution. Admission will be granted based upon the Admission Committee's overall assessment of the student's qualifications and academic/career potential, using the following criteria:

Cumulative undergraduate GPA of at least 2.5;

Statement of Purpose in pursuing the MS-HCA degree (a 1-2 page essay double-spaced, explaining who you are, your career goals and how the MS-HCA degree will help you achieve those goals, and why you believe you will be successful in the program);

Two letters of academic and/or professional recommendation (on letterhead). The letter writers should include how they know you, if they think you would be successful in the program and why they think that;

Professional resume/vita;

All undergraduate/graduate transcripts. (These must be sent directly to University Admissions NOT the Department.)

All applicants must submit an online Graduate Admission application declaring Health Care Administration as a degree objective, and transcripts, at <http://www.csumentor.edu> along with a non-refundable fee. In addition, applicants must also submit a statement of purpose, 2 letters of reference and a resume directly to the Department of Public Affairs and Administration at CSUEB, Dept of Public Affairs and Administration, 25800 Carlos Bee Blvd., MI 4122, Hayward, CA 94542-3040.

Please review the detailed application instructions on the Department's website at <http://www20.csueastbay.edu/class/departments/publicadmin/healthcare/index.html>

Student Standing and Progress toward the Degree

There are three categories of student status, which reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and Advancement to Candidacy.

Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MS-HCA program, but have not yet completed the prerequisites for the "Classified Graduate" status in the MS-HCA program.

Students achieve "Classified Graduate" status when they have satisfactorily completed the foundation course for the MS-HCA program or its equivalent, and satisfied the University Writing Skills requirement. (See "Prerequisites for "Classified Graduate" status below.)

Students are Advanced to Candidacy when they have completed the core courses with a 3.0 or better cumulative GPA.

Prerequisites for "Classified Graduate" Status

As prerequisites to "Classified Graduate" status, students must satisfy the University Writing Skills Requirement and satisfactorily complete the foundation course:

STAT 1000 - Elements of Probability and Statistics Units: 5 or its equivalent (with a grade of "C" or better) or request to have the foundation course waived based upon other coursework completed in statistics.

For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Degree Requirements

The MS-HCA program requires completion of 48 quarter units consisting of required core courses and the capstone experience. Of the 48 units, at least 35 units must be completed in residence (transfer units are limited to 13 quarter units). No course numbered 1000 to 2999 (or the equivalent, if taken elsewhere) may be used as part of the 48-unit graduate degree program. STAT 1000 - Elements of Probability and Statistics, or its equivalent, must be completed as a foundation course with a grade of "C" or better prior to enrolling in 6000-level courses. Transfer units are rarely accepted in the MS-HCA program.

A cumulative grade point average of 3.0 must be maintained in all 48 quarter units taken to satisfy the degree requirements. Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two consecutive quarters will be academically disqualified by the university. All graduate degree requirements must be completed within five years.

Students accumulating more than 8 units of work graded "I" may not register for courses applicable to the degree until the "I" grades are removed.

Granting the Degree

Upon satisfaction of all requirements for the degree, the department will recommend that the candidate be granted the Master of Science Degree in Health Care Administration. Students must file for graduation by the second week of the quarter prior to the quarter in which they expect to graduate.

Curricular Requirements

Foundation (Prerequisite) Course (0-5 units)

Students must complete the foundation course (or its equivalent) with a grade of "C" or better:

- STAT 1000 - Elements of Probability and Statistics *Units: 5*

Required Courses (44 units)

- HCA 6200 - US Health Care System *Units: 4*
- HCA 6201 - Introduction to Health Informatics *Units: 4*
or
- HCA 6230 - Information Technology in Health Care *Units: 4*
- HCA 6202 - Project and Change Management in Health Informatics *Units: 4*
or
- HCA 6225 - Organization Theory and Behavior in Health Care *Units: 4*
- HCA 6203 - Quality Improvement Using Health Informatics *Units: 4*
or
- HCA 6290 - Health Care Quality Assessment and Improvement *Units: 4*
- HCA 6240 - Health Care Financing and Budgeting *Units: 4*
- HCA 6260 - Health Care Policy Analysis *Units: 4*
- HCA 6275 - Evolution of Managed Health Care *Units: 4*

Management and Change in Health Care:

- HCA 6210 - Leadership and Change in Health Care Organizations *Units: 4*
- HCA 6250 - Strategic Management of Health Care Organizations *Units: 4*
- HCA 6270 - Health Care Management *Units: 4*
- HCA 6280 - Legal and Ethical Issues in Health Care *Units: 4*

Capstone Experience (4 units)

HCA 6899 serves as the capstone experience in the degree program. HCA 6899 must be taken as the last 4 units in the program. Students must satisfy the University Writing Skills Test requirement before they will be allowed to enroll in HCA 6899. A project has a strong practical action-oriented component accompanied by a written document. A project is directed by one faculty member.

Grades of "RP" (Report in Progress) may be given for a project that is not completed at the end of the quarter. The "RP" grade indicates that work is in progress, but that a final grade cannot be assigned until additional work is completed. The "RP" grade must be removed within four quarters or it will become an "F".

- HCA 6899 - Project *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Master of Public Administration

Public Administration, Health Care Administration Option, M.P.A.

Department & Faculty Information

Public Administration (MPA) 48 units

Program Description

The Department of Public Affairs and Administration at Cal State East Bay offers a program of coursework leading to a Master of Public Administration (MPA) degree. The department also offers an M.S. in Health Care Administration (see the Programs of Study section of this catalog). The following pages only describe the MPA degree program.

Public Administration is a rich and challenging multi-disciplinary field drawing from sociology, anthropology, philosophy, psychology, economics, and urban and organizational studies. The master's degree program provides students with a grounding in major philosophical and social science thinking about the nature of organizations; it helps students to build the intellectual and practical tools they will need to become effective organizational leaders in the public and non-profit sectors. The MPA program is designed to increase the personal and professional effectiveness of people working in public, voluntary, and private organizations. The purpose of the program is to prepare individuals for leadership positions in various kinds of organizations with a sense of commitment to social purpose, the public interest, and effective public problem-solving.

The program proceeds on several assumptions: (1) many pressing problems of society must be dealt with through public agencies, and these agencies must be staffed by well-prepared public administrators; (2) public agencies should be more oriented toward the public interest and be more client-centered than is generally the case at present; (3) public agencies should be humanistically oriented, encouraging personal contribution, growth, and improvements in the quality of working life; (4) public agencies should nurture and support a critical awareness on the part of public administrators, leading to an ability to challenge and change administrative practice; and (5) public administrators need to find creative and innovative solutions to the problems of providing quality public services in times of resource scarcity.

The department strives to expand the meaning of public administration to include the theory and practice of administration in non-profit and community organizations. Overall, emphasis is placed upon developing student sensitivities to a wide variety of human, social, and organizational realities in order to assist public organizations in formulating and obtaining their goals and striving toward responsible social change. In sum, the faculty believes the challenge of the changing post-industrial era is best met by humanizing governments, by strengthening their capacities for intelligent policy analysis and effective action on behalf of the public interest, and by encouraging in public administrators a welcoming attitude toward learning, creativity, and innovation.

Student Learning Outcomes

Students graduating with a MPA will be able to:

- Lead and manage in public governance while demonstrating an understanding of the role of theory in public governance and the application of these theories toward administrative inquiry;
- Participate in and contribute to the policy process;
- Analyze, synthesize, think critically, solve problems, and demonstrate an understanding of interpretive and quantitative research methodologies;
- Articulate and apply a public service perspective;
- Communicate and interact productively with a diverse and changing workforce and citizenry.

Career Opportunities

The MPA program prepares students for careers in government organizations at the federal, state, and local levels as well as in community organizations and the non-profit sector. The program also offers an excellent preparation for doctoral level study for those seeking careers in university teaching and research. The curriculum offers students opportunities to specialize in public management and public policy development, health care administration, and human resources and organizational change. Cal State East Bay MPA alumni are well represented in positions of leadership throughout the Bay Area as well as in local, state, and federal agencies in the western states.

Internships

The Department of Public Affairs and Administration sponsors an optional graduate internship program as an integral part of the master's program. The internship program provides students with an opportunity to complement their academic studies with practical administrative experience in a city, county, state, federal, or non-profit agency. The internships vary from three to nine months and average 10 to 30 hours per week. Some pay a stipend; others are on a volunteer basis. An internship is not a job placement, but an opportunity for gaining experience. Internships are for 300 hours or two quarters.

Scholarships

- Graduate Equity Fellowship
- Herman J. McKenzie Memorial Scholarship Fund
- Robert Odell Scholarship
- MPA Alumni Scholarship
- VrMeer Family Scholarship

Admission

The MPA degree program is open to applicants planning careers in public organizations who have a baccalaureate degree from an accredited institution. Admission will be granted based upon the Admission Committee's overall assessment of the program's admission capacity and of the applicant's qualifications and academic/career potential, using the following criteria:

- Cumulative undergraduate GPA of at least 2.5;

- Statement of Purpose in pursuing the MPA degree (a 1-2 page essay double-spaced, explaining who you are, your career goals and how the MPA degree will help you achieve those goals and why you believe you will be successful in the program);
- Two letters of academic and/or professional recommendation (on letterhead - company or educational institution stationery). The letter writers should include how they know you, if they think you would be successful in the program and why they think that;
- Professional resume/vita, and
- All undergraduate/graduate transcripts. (These must be sent directly to University Admissions NOT the Department.)

All applicants must submit an online Graduate Admission application declaring Public Administration as a degree objective, and transcripts, at www.csumentor.edu along with a non-refundable fee. In addition, applicants must also submit a statement of purpose, 2 letters of reference and a resume directly to the Department of Public Affairs and Administration at the following address: CSUEB: Dept of Public Affairs and Administration, 25800 Carlos Bee Blvd., MI 4122, Hayward, CA 94542-3040.

Please review the detailed application instructions on the Department's website at <http://www20.csueastbay.edu/class/departments/publicadmin/publicadmin/criteria.html>.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and Advancement to Candidacy.

Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MPA degree program, but have not yet completed the requirements for "Classified Graduate" status in the M.P.A. degree program.

These requirements are: PUAD 4800 Public Administration and Society (with a grade of "B" or better), PUAD 4830 Organization Theory and Human Behavior (with a grade of "B" or better), PUAD 4840 Fundamentals of Information Management in the Public Sector (with a grade of "B" or better), and PUAD 5000 Philosophy of Public Administration (with a grade of "B" or better).

- Students achieve "Classified Graduate" status when they have satisfactorily completed the four foundation courses for the MPA degree program or their equivalents, and satisfied the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
- Students are Advanced to Candidacy when they have completed the core courses with a 3.0 or better cumulative GPA.

Capstone Experience

Comprehensive Exam, Departmental or University Thesis

Students have a choice of completing the program with a Departmental or University Thesis or Comprehensive Examination. Students must satisfy the University Writing Skills Test requirements before they will be allowed to enroll in PUAD 6901, PUAD 6909, or PUAD 6910. Students who wish to take the Comprehensive Examination must first enroll in PUAD 6901, Graduate Synthesis (4 units). Upon the successful completion of the course, they become eligible to take the Comprehensive Exam, which is a proctored essay exam. Students who fail the Comprehensive Exam may either retake PUAD 6901 and

the Exam one additional time, or they may instead decide at that time to enroll in PUAD 6909, Departmental Thesis, or PUAD 6910, University Thesis.

Students who choose to take PUAD 6909, Departmental Thesis, or PUAD 6910, University Thesis, should be aware of the procedural differences between a departmental and university thesis. While each carries 4 units of graduate credit, the university thesis requires a two-faculty member committee. The University Thesis Committee meets as called by the student or the faculty and includes the submission of the thesis to the University for final approval. * The university thesis deadline dates are listed at: Academic Calendar. A departmental thesis is directed by one faculty member. Students completing the departmental thesis may either sign up individually with a faculty advisor or meet in a scheduled graduate course. Two copies of the departmental thesis are required for the department. **Note: see the Errata chapter of this catalog for minor changes.*

Grades of "SP" (Satisfactory Progress) may be given for a thesis that is not completed at the end of the quarter. The "SP" grade must be removed within five years or it will become an "F."

Granting the Degree

Upon satisfaction of all requirements for the degree, the department will recommend that the candidate be granted the Degree of Master of Public Administration. Students must file for graduation by the second week of the quarter prior to the quarter in which they expect to graduate.

Degree Requirements (48 units)

The program requires completion of 48 quarter units beyond the foundation courses, at least 35 units of which must be completed in residence at CSUEB:

- Core Courses: 20 units
- Required and Elective Courses in an Option Area: 24 units
- Capstone Course: 4 units

The MPA program requires completion of 48 quarter units, distributed among core courses; required and elective courses in an option area; and the graduate synthesis or the departmental or university thesis. Of these, at least 35 units must be completed in residence at CSUEB (transfer units are limited to 13 quarter units); at least 24 units must be in courses in the 6000 series. No course numbered 1000 to 2999 (or equivalent if taken elsewhere) may be used as part of the 48-unit graduate degree program.

No more than two courses per quarter may be completed in the MPA program. Courses are offered in all quarters, including the summer quarter. Students are admitted as a cohort and follow a degree completion roadmap designed for that cohort.

A cumulative grade point average of 3.0 must be maintained in all 48 quarter units taken to satisfy the degree requirements. Students who fail to maintain progress by falling below a cumulative 3.0 GPA in their graduate courses for two consecutive quarters will be academically disqualified from the university. All graduate degree requirements must be completed within 5 years.

Students accumulating more than 8 units of work graded "I" (Incomplete) may not register for further courses applicable to the degree until the "I" grades are removed.

Core Courses (20 units)

All students must take the following five courses prior to taking the option courses:

- PUAD 6801 - Public Policy Formulation *Units: 4*
- PUAD 6811 - Human Organizations and Social Realities *Units: 4*
- PUAD 6812 - Changing Human Organizations *Units: 4*
- PUAD 6831 - Research Methods in Public Administration I *Units: 4*
- PUAD 6832 - Research Methods in Public Administration II *Units: 4*

Note: PUAD 6811 must be completed prior to taking PUAD 6812. However, PUAD 6831 and PUAD 6832 are not sequential and are not required to be taken in sequence.

Capstone Course (4 units)

Students are required to take one of the following:

- PUAD 6901 - Graduate Synthesis *Units: 4* and Comprehensive Exam.
- PUAD 6909 - Departmental Thesis *Units: 1-4*
- PUAD 6910 - University Thesis *Units: 1-4*

Option Requirements (24 units)

To complete the Master program in Public Administration, students are required to take an additional 24 units through one (1) of two options:

- Public Administration, Health Care Administration Option, M.P.A.
- Public Administration, Public Management and Policy Analysis Option, M.P.A.

Health Care Administration Option

Designed for students who are preparing for an administration, management or policy analyst career in the health care field. The option area focuses on health policy, health services delivery, and management issues in a variety of health care organizations.

Option includes four courses designated to the option, and 8 units of electives which must be taken inside the department.

Required courses (16 units)

- HCA 6200 - US Health Care System *Units: 4*
- HCA 6250 - Strategic Management of Health Care Organizations *Units: 4*
- HCA 6260 - Health Care Policy Analysis *Units: 4*
- HCA 6270 - Health Care Management *Units: 4*

Electives (8 units)

Select two from the following:

- HCA 6201 - Introduction to Health Informatics *Units: 4*
- HCA 6202 - Project and Change Management in Health Informatics *Units: 4*
- HCA 6210 - Leadership and Change in Health Care Organizations *Units: 4*

- HCA 6225 - Organization Theory and Behavior in Health Care *Units: 4*
- HCA 6240 - Health Care Financing and Budgeting *Units: 4*
- HCA 6275 - Evolution of Managed Health Care *Units: 4*
- HCA 6280 - Legal and Ethical Issues in Health Care *Units: 4*
- HCA 6290 - Health Care Quality Assessment and Improvement *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Public Administration, Public Management and Policy Analysis Option, M.P.A.

Department & Faculty Information

Public Administration (MPA) 48 units

Program Description

The Department of Public Affairs and Administration at Cal State East Bay offers a program of coursework leading to a Master of Public Administration (MPA) degree. The department also offers an M.S. in Health Care Administration (see the Programs of Study section of this catalog). The following pages only describe the MPA degree program.

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The program proceeds on several assumptions: (1) many pressing problems of society must be dealt with through public agencies, and these agencies must be staffed by well-prepared public administrators; (2) public agencies should be more oriented toward the public interest and be more client-centered than is generally the case at present; (3) public agencies should be humanistically oriented, encouraging personal

contribution, growth, and improvements in the quality of working life; (4) public agencies should nurture and support a critical awareness on the part of public administrators, leading to an ability to challenge and change administrative practice; and (5) public administrators need to find creative and innovative solutions to the problems of providing quality public services in times of resource scarcity.

The department strives to expand the meaning of public administration to include the theory and practice of administration in non-profit and community organizations. Overall, emphasis is placed upon developing student sensitivities to a wide variety of human, social, and organizational realities in order to assist public organizations in formulating and obtaining their goals and striving toward responsible social change. In sum, the faculty believes the challenge of the changing post-industrial era is best met by humanizing governments, by strengthening their capacities for intelligent policy analysis and effective action on behalf of the public interest, and by encouraging in public administrators a welcoming attitude toward learning, creativity, and innovation.

Student Learning Outcomes

Students graduating with a MPA will be able to:

- Lead and manage in public governance while demonstrating an understanding of the role of theory in public governance and the application of these theories toward administrative inquiry;
- Participate in and contribute to the policy process;
- Analyze, synthesize, think critically, solve problems, and demonstrate an understanding of interpretive and quantitative research methodologies;
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The MPA program prepares students for careers in government organizations at the federal, state, and local levels as well as in community organizations and the non-profit sector. The program also offers an excellent preparation for doctoral level study for those seeking careers in university teaching and research. The curriculum offers students opportunities to specialize in public management and public policy development, health care administration, and human resources and organizational change. Cal State East Bay MPA alumni are well represented in positions of leadership throughout the Bay Area as well as in local, state, and federal agencies in the western states.

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The Department of Public Affairs and Administration sponsors an optional graduate internship program as an integral part of the master's program. The internship program provides students with an opportunity to complement their academic studies with practical administrative experience in a city, county, state, federal, or non-profit agency. The internships vary from three to nine months and average 10 to 30 hours per week. Some pay a stipend; others are on a volunteer basis. An internship is not a job placement, but an opportunity for gaining experience. Internships are for 300 hours or two quarters.

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- Cumulative undergraduate GPA of at least 2.5;
- Statement of Purpose in pursuing the MPA degree (a 1-2 page essay double-spaced, explaining who you are, your career goals and how the MPA degree will help you achieve those goals and why you believe you will be successful in the program);
- Two letters of academic and/or professional recommendation (on letterhead - company or educational institution stationery). The letter writers should include how they know you, if they think you would be successful in the program and why they think that;
- Professional resume/vita, and
- All undergraduate/graduate transcripts. (These must be sent directly to University Admissions NOT the Department.)

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These requirements are: PUAD 4800 Public Administration and Society (with a grade of "B" or better), PUAD 4830 Organization Theory and Human Behavior (with a grade of "B" or better), PUAD 4840 Fundamentals of Information Management in the Public Sector (with a grade of "B" or better), and PUAD 5000 Philosophy of Public Administration (with a grade of "B" or better).

- Students achieve "Classified Graduate" status when they have satisfactorily completed the four foundation courses for the MPA degree program or their equivalents, and satisfied the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

- Students are Advanced to Candidacy when they have completed the core courses with a 3.0 or better cumulative GPA.

Capstone Experience

Comprehensive Exam, Departmental or University Thesis

Students have a choice of completing the program with a Departmental or University Thesis or Comprehensive Examination. Students must satisfy the University Writing Skills Test requirements before they will be allowed to enroll in PUAD 6901, PUAD 6909, or PUAD 6910. Students who wish to take the Comprehensive Examination must first enroll in PUAD 6901, Graduate Synthesis (4 units). Upon the successful completion of the course, they become eligible to take the Comprehensive Exam, which is a proctored essay exam. Students who fail the Comprehensive Exam may either retake PUAD 6901 and the Exam one additional time, or they may instead decide at that time to enroll in PUAD 6909, Departmental Thesis, or PUAD 6910, University Thesis.

Students who choose to take PUAD 6909, Departmental Thesis, or PUAD 6910, University Thesis, should be aware of the procedural differences between a departmental and university thesis. While each carries 4 units of graduate credit, the university thesis requires a two-faculty member committee. The University Thesis Committee meets as called by the student or the faculty and includes the submission of the thesis to the University for final approval. * The university thesis deadline dates are listed at: Academic Calendar. A departmental thesis is directed by one faculty member. Students completing the departmental thesis may either sign up individually with a faculty advisor or meet in a scheduled graduate course. Two copies of the departmental thesis are required for the department. **Note: see the Errata chapter of this catalog for minor changes.*

Grades of "SP" (Satisfactory Progress) may be given for a thesis that is not completed at the end of the quarter. The "SP" grade must be removed within five years or it will become an "F."

Granting the Degree

Upon satisfaction of all requirements for the degree, the department will recommend that the candidate be granted the Degree of Master of Public Administration. Students must file for graduation by the second week of the quarter prior to the quarter in which they expect to graduate.

Degree Requirements (48 units)

The program requires completion of 48 quarter units beyond the foundation courses, at least 35 units of which must be completed in residence at CSUEB:

- Core Courses: 20 units
- Required and Elective Courses in an Option Area: 24 units
- Capstone Course: 4 units

The MPA program requires completion of 48 quarter units, distributed among core courses; required and elective courses in an option area; and the graduate synthesis or the departmental or university thesis. Of these, at least 35 units must be completed in residence at CSUEB (transfer units are limited to 13 quarter units); at least 24 units must be in courses in the 6000 series. No course numbered 1000 to 2999 (or equivalent if taken elsewhere) may be used as part of the 48-unit graduate degree program.

No more than two courses per quarter may be completed in the MPA program. Courses are offered in all quarters, including the summer quarter. Students are admitted as a cohort and follow a degree completion roadmap designed for that cohort.

A cumulative grade point average of 3.0 must be maintained in all 48 quarter units taken to satisfy the degree requirements. Students who fail to maintain progress by falling below a cumulative 3.0 GPA in their graduate courses for two consecutive quarters will be academically disqualified from the university. All graduate degree requirements must be completed within 5 years.

Students accumulating more than 8 units of work graded "I" (Incomplete) may not register for further courses applicable to the degree until the "I" grades are removed.

Core Courses (20 units)

All students must take the following five courses prior to taking the option courses:

- PUAD 6801 - Public Policy Formulation *Units: 4*
- PUAD 6811 - Human Organizations and Social Realities *Units: 4*
- PUAD 6812 - Changing Human Organizations *Units: 4*
- PUAD 6831 - Research Methods in Public Administration I *Units: 4*
- PUAD 6832 - Research Methods in Public Administration II *Units: 4*

Note: PUAD 6811 must be completed prior to taking PUAD 6812. However, PUAD 6831 and PUAD 6832 are not sequential and are not required to be taken in sequence.

Capstone Course (4 units)

Students are required to take one of the following:

- PUAD 6901 - Graduate Synthesis *Units: 4* and Comprehensive Exam.
- PUAD 6909 - Departmental Thesis *Units: 1-4*
- PUAD 6910 - University Thesis *Units: 1-4*

Option Requirements (24 units)

To complete the Master program in Public Administration, students are required to take an additional 24 units through one (1) of two options:

- Public Administration, Health Care Administration Option, M.P.A.
- Public Administration, Public Management and Policy Analysis Option, M.P.A.

Public Management and Policy Analysis Option

Required Courses (16 units)

- PUAD 6815 - Ethics and Administrative Responsibility *Units: 4*
- PUAD 6842 - Governmental Budgeting *Units: 4*
- PUAD 6850 - Human Resource Management in the Public Sector *Units: 4*
- PUAD 6864 - Managing Public Organizations *Units: 4*

Electives (8 units)

Select two from the following:

- PUAD 6762 - Group Procedures and Facilitation *Units: 4*
- PUAD 6802 - Seminar in Public Policy Implementation *Units: 4*
- PUAD 6809 - Seminar in Public Program Evaluation *Units: 4*
- PUAD 6830 - Advanced Information Management in Public Organizations *Units: 4*
- PUAD 6854 - Seminar in Public Labor Relations *Units: 4*
- PUAD 6869 - Topics in Public Management *Units: 4*
- PUAD 6893 - Internship in Public Administration *Units: 1-4*
- PUAD 6999 - Issues in Public Administration *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Department of Social Work

The Department Office is located on the 4th Floor in the Meiklejohn Hall building, Room 4064

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-4916

Faculty

Professor

Dianne Rush Woods, Ph.D. University of California, Berkeley

Associate Professors

Toni Naccarato, Ph.D. University of California, Berkeley

Sarah Taylor, Ph.D. University of California, Berkeley

Holly Vugia, Ph.D. University of California, Berkeley

Assistant Professors

Macheo Payne, Ed.D. San Francisco State University

Rose Wong, Ph.D. University of California, Berkeley

Department Statement

The Department of Social Work offers graduate instruction leading to the Master of Social Work (MSW) Degree to a diverse, multicultural and multiracial student population. The faculty, through teaching, advising and the field experience, works to foster a sense of activism, social justice, commitment to change and a new vision of professional competence in students admitted to the program. The MSW degree is especially oriented to preparing social work professionals for practice in the urban Bay Area with at-risk populations such as women, people of color and other oppressed populations. The two-year program requires 88-89 units. Currently there are two concentrations: Children, Youth and Families and Community Mental Health. Within the program of study, students engage in both academic classes and a field experience. This unique melding of coursework and field experiences is designed to provide students with a maximum of preparation for effective social work practice in today's increasingly diverse, complex multicultural and multiracial society.



Master of Social Work

Social Work, M.S.W.

Department & Faculty Information

Social Work (M.S.W.) 88-89 units

Program Description

The Department of Social Work offers graduate study leading to the degree Master of Social Work (M.S.W.). This degree program is designed to train social workers for leadership and direct practice positions in social work, and is accredited by the Council on Social Work Education. The program has a

multicultural focus, which prepares social work students to work in both non-profit and public agencies and to be proficient in working with diverse populations in urban communities.

The *mission* of the California State University, East Bay Master of Social Work program is committed to graduating culturally responsive urban social workers in the areas of Children, Youth, and Families and Community Mental Health. Social work graduates are prepared to address individual, family, group, and community needs caused by inequalities of class and identity including race, ethnicity, gender, age, (dis)ability, sexual orientation, and other forms of social injustice. Advocacy and social change around these injustices form the core of the MSW program.

Our *vision* is to create a cadre of diverse leaders to be catalysts for social change and transform oppressive systems in partnership with the communities we serve.

Program Learning Outcomes

Students graduating with an M.S.W. from Cal State East Bay will be able to:

- Uphold the core values and ethical principles and standards of the social work profession as codified in the National Association of Social Workers' Code of Ethics. *Values and Ethics.*
- Conduct oneself autonomously in the professional social work role, including understanding personal values and biases and knowing their impact on clients, engaging in ongoing development of professional knowledge and skills, and exercising use of self in order to engage and collaborate effectively.

Professional Use of Self.

- Use critical thinking skills in the analysis and synthesis of information, including in the application of evidence-based practice and theoretical material and in modifying intervention plans as needed. *Critical Thinking and Theory for Practice.*

- Advocate for clients, groups and communities in complex cultural, social, and political situations. *Advocacy.*

- Act with self-awareness, cultural humility, and knowledge of diverse populations, with the commitment of providing culturally competent service. *Diversity.*

- Communicate effectively orally and in writing across diverse client and social services systems.

Communication.

Career Opportunities

Graduates of the M.S.W. program are prepared to work with individuals, families, groups, and organizations in both public and non-profit practice. The State of California is experiencing a shortage of individuals prepared for leadership roles in social work practice. The State also has a critical shortage of social workers trained at the master's level and the demand for Master-level social workers is expected to increase. Social Workers are needed to work with a variety of populations, including individuals with serious mental illnesses, children and families involved in the child welfare system, other adults, individuals with disabilities, and families living in poverty.

Admission

The M.S.W. degree program is open to students planning a career in social work who have a baccalaureate degree from an accredited institution and who have earned an overall grade point average of 2.8 (on a 4.0 scale). Students with a GPA below 2.8 may be admitted based on an evaluation of their student profile, including work experience, resume, letters of recommendation, and personal statement (see below).

In addition to the "University Graduate and Post-baccalaureate Application," all applicants should submit:

- A completed departmental application form;
- A personal statement (3 pages) with their application stating their reasons for pursuing the M.S.W. degree, describing their relevant work experience, and explaining their past academic performance;
- Three letters of recommendation (letters from prior instructors and/or supervisors preferred); and
- A resume. Successful experience in social work or social work-related positions will be considered in evaluating applications.

Admission to the university and admission to the M.S.W. degree program are separate steps. It is suggested that application for admission to the university (Part A of the application) be filed together with the form for entry into the degree program (Part B of the application).

Advising

Students who are accepted into the department will normally be admitted in "Conditionally Classified Graduate" status until satisfaction of all prerequisites and the University Writing Skills Requirement is documented for the Social Work office, at which time a change to "Classified Graduate" status will be requested by the department. The student is assigned an official advisor from the faculty of the department and must consult his or her advisor prior to registration for each quarter. The student should maintain close contact at all times with the advisor for advice and information.

Student Standing and Progress toward the Degree

- There are three categories of student status that reflect your progress toward the degree. You are in "Conditionally Classified Graduate" status when you have been admitted to the M.S.W. degree program, but have not yet completed the prerequisites for the "Classified Graduate" status in the M.S.W. degree program.
- You achieve "Classified Graduate" status when you have satisfactorily completed all the prerequisites for the M.S.W. degree program and satisfied the University Writing Skills Requirement. (See "Prerequisites for 'Classified Graduate' Status" below.)
- You are "Advanced to Candidacy" when you have completed the core courses with a 3.0 GPA or better.

Note: If you fail to maintain progress by falling below a 3.0 GPA in your graduate courses for two or more consecutive quarters, you will be academically disqualified from the university.

Prerequisites for "Classified Graduate" Status

As prerequisites to "Classified Graduate" status, you must satisfy the University Writing Skills Requirement and have satisfactorily completed STAT 1000 or equivalent, and a course in human biology or anatomy and physiology with a grade of "C" or better. These courses must be taken before you attempt the core graduate courses. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Advancement to Candidacy

Formal Advancement to Candidacy for the master's degree requires prior completion of the following steps:

- Successful completion of all foundation year courses with a grade of C or better and an overall grade point average of 3.0 or better.
- Successful completion of all required departmental prerequisites.
- Recommendation by the student's advisor who has reviewed the student's record and affirmed that the student has met academic and professional conduct standards.

Cause for Dismissal from Program

Students may be dismissed from the program at any time "for cause." "For cause" includes, but is not limited to, poor academic or fieldwork performance, as well as behavior that is destructive to students or faculty, and/or interferes with the educational environment, and/or represents a threat to potential clients. "For cause" also includes student behaviors that are inconsistent with the legal, ethical, and/or personal responsibilities of professional social workers.

Credit by Examination

If you have special expertise that is covered in a required course, you may ask to receive credit for the course through examination. To receive credit in the course, you must pass the examination with a grade of "B-" or better. Please note that units taken credit-by-examination are considered non-resident units and only a maximum of 13 non-resident units are allowed in a graduate degree. Other examples of non-resident units are those earned while at other schools, while an undergraduate with permission to take graduate courses, while pursuing an additional baccalaureate degree in "Unclassified Post-baccalaureate" status, while enrolled in another graduate degree program, or while enrolled in Extension courses (including Open University courses).

Students with M.S.W.-level coursework in other CSWE-accredited programs are advised to contact the Social Work Department Chair concerning the possibility of transfer of credit.

Incompletes

If you accumulate more than 8 units of work graded "I" (Incomplete Authorized), you may not register for courses applicable to the degree until the coursework is completed and the "I" grades are changed to passing grades.

Capstone Experience

Students have three choices for completing a capstone experience in the MSW program. The first choice is the Integrative Seminar, SW 6959. This integrative seminar provides students with the opportunity to demonstrate mastery of the core student learning outcomes of the MSW program. Students, in cooperation with faculty and agency supervisors, complete an agency-focused project or research on a topic focused on social work practice and advocacy

The second is the Departmental Thesis, SW 6909. Students may either sign up individually with a faculty advisor or meet with their advisor in a scheduled graduate course. A faculty member serves as director of the departmental thesis. An oral defense is required. Two copies of the departmental thesis are required for the department.

The third and final choice is a University Thesis, SW 6910. This choice is supervised by a faculty committee, follows a university specified format, and includes a required oral defense.

A grade of "RP" (Report in Progress) may be given for a thesis that is not completed at the end of the quarter. The "RP" grade must be changed to a passing grade within five (5) years of your initial enrollment in a thesis course or it will become an "F."

Granting the Degree

Upon satisfactory completion of all requirements for the degree, the department will recommend that eligible students be granted the Master of Social Work degree. You must file for graduation with the Department of Social Work by the end of the second week of the quarter prior to the quarter in which you expect to graduate.

Degree Requirements

The M.S.W. degree program requires completion of 88-89 quarter units, distributed among core courses, concentration courses, elective courses, and the integrative seminar or graduate thesis. Of these, at least 75-77 units must be completed in residence after being admitted to the program (transfer units are limited to 13 quarter units). No course numbered 1000 to 2999 (or equivalent if taken elsewhere) may be used as part of the 88-89 unit graduate degree program.

Earn a 3.0 grade point average in all units counted towards your degree, with a minimum course grade of "C" in every course. Any courses with a grade of "C-" or below will have to be repeated. All graduate degree requirements must be completed with the five (5) years prior to graduation.

Curricular Requirements

Core Requirements (44 units)

Prerequisite courses (STAT 1000 or equivalent, human biology or anatomy and physiology) must be completed before taking the required courses.

- SW 6000 - Human Behavior and Social Environment I *Units: 4*
- SW 6001 - Human Behavior and Social Environment II *Units: 4*
- SW 6010 - Race, Gender and Inequality in Social Work Practice *Units: 4*
- SW 6011 - Generalist Practice I *Units: 4*
- SW 6012 - Generalist Practice II *Units: 4*
- SW 6013 - Generalist Practice III *Units: 4*
- SW 6020 - Field Instruction I *Units: 4*
- SW 6021 - Field Instruction II *Units: 4*
- SW 6022 - Field Instruction III *Units: 4*
- SW 6030 - Social Welfare Policy : History and Philosophy *Units: 4*
- SW 6032 - Social Welfare Policy: Research *Units: 4*

Core Electives (8 units)

Select 8 units from the following courses:

- SW 6550 - Social Work Psychosocial Rehabilitation *Units: 4*

- SW 6552 - Legal Issues in Social Work Practice *Units: 4*
- SW 6553 - Assessment and Treatment of Substance Abuse *Units: 4*
- SW 6555 - School Social Work *Units: 4*
- SW 6556 - Human Sexuality and Social Work *Units: 4*
- SW 6560 - Family Violence Across the Lifespan *Units: 4*
- SW 6561 - Advanced Psychosocial Assessment and Diagnosis *Units: 4*
- SW 6962 - Writing for Social Work *Units: 2*
- SW 6964 - Practice with Lesbian, Bi-Sexual, Gay, Transgendered and Questioning Populations *Units: 4*

Concentrations (29-34 units)

Select either concentration: *Children, Youth, and Families* or *Community Mental Health*, then complete the final core group.

Children, Youth, and Families

- SW 6400 - Title IV-E Seminar *Units: 1*
(This seminar is required for the specific grant program (Title IV-E). Students in this program will take one extra unit, bringing their total to 89 units.)
- SW 6500 - Advanced Micro Practice: Children, Youth, and Families *Units: 4*
- SW 6510 - Advanced Mezzo Practice: Children, Youth, and Families *Units: 4*
- SW 6520 - Advanced Policy Practice: Children, Youth, and Families *Units: 4*

Community Mental Health

- SW 6405 - Community Mental Health Seminar *Units: 1*
(This seminar is required for the specific grant program (CalSWEC II). Students in this program will take one extra unit, bringing their total to 89 units.)
- SW 6505 - Advanced Micro Practice: Community Mental Health *Units: 4*
- SW 6515 - Advanced Mezzo Practice: Community Mental Health *Units: 4*
- SW 6525 - Advanced Policy Practice: Community Mental Health *Units: 4*

Concentrations Final Core Units

Final units to complete the concentrations.

- SW 6530 - Field Instruction IV *Units: 4*
- SW 6531 - Field Instruction V *Units: 4*
- SW 6532 - Field Instruction VI *Units: 4*
- SW 6932 - Qualitative and Quantitative Analysis *Units: 4*
- SW 6935 - Program Evaluation *Units: 4*

(Students choosing to complete their Capstone Experience with 8 units of SW 6910 are not required to complete this course.)

Capstone Experience (4 units)

Choose one of the following:

- SW 6909 - Departmental Thesis *Units: 4*
- SW 6910 - University Thesis *Units: 4*
- SW 6959 - Integrative Seminar *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Department of Sociology and Social Services

The Department Office is located on the 3rd Floor of the Meiklejohn Hall building, Room 3095

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: 510.885.3173

Faculty

Professors

Patricia Jennings Ph.D. University of Kentucky

Efren N. Padilla, Ph.D. Michigan State University

Carl Stempel (Chair), Ph.D. University of Oregon

Associate Professors

Julie Beck, Ph.D. University of California, Santa Cruz

Will L. Johnson, Ph.D. University of California, Berkeley

Assistant Professors

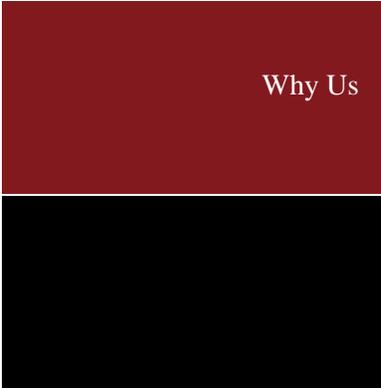
Duke Austin, Ph.D. University of Colorado at Boulder

Donovon Ceaser, Ph.D. Louisiana State University

Sukari Ivester, Ph.D. University of Chicago

Mission Statement

The mission of the B.A. program in Sociology and Social Services is to provide a stimulating and nurturing learning atmosphere for a highly diverse group of students. The program seeks to have students develop and express a love of learning and a respect for a wide range of intellectual perspectives, including a variety of theories and scientific methodologies. We are dedicated to providing students with tools and opportunities to critically examine social life, including the full range of social problems. Students learn specifically about the workings of social institutions, patterns of group life, social change, and the social causes and consequences of human behavior. Students who choose the option in social services will learn basic principles and practices in applying this perspective to support individuals, families and groups, or for going on to do graduate study in social work, public administration or counseling.



Why Us

Bachelor of Arts

Sociology, B.A.

Department & Faculty Information

Sociology (B.A.) 180 units

Program Description

Cal State East Bay offers a major in Sociology that leads to the Bachelor of Arts degree.

The Sociology major is designed for students with career interests in the public sector or business or entry into law school, public administration, or graduate work in a number of fields.

The core requirements for majors include courses in social theory and research methods. The research methods sequence includes training in applied social research and computer applications for the social sciences. Sociology majors must also take three of six courses in the area of social diversity and seven electives. Electives can be selected from any of the upper division courses offered by the department.

Student Learning Outcomes

Students graduating with a B.A. in Sociology from Cal State East Bay will:

- read and analyze sociological data and, thus, be able to critically examine "knowledge" veracity by mastering appropriate research methods, including: 1) data collection, 2) sampling, and 3) data analysis.
- engage (orally and in writing) in educated, open-minded discussions of diverse sociocultural beliefs, perspectives, and norms.
- possess knowledge of cultural differences and understand how power and privilege produce institutional inequalities and cultural constructions of socio-cultural differences.
- work collaboratively in diverse groups, and when appropriate to their educational path, successfully complete service in community social service practicum.
- demonstrate knowledge of policies and practices that contribute to local, national and global forms of poverty, violence, exploitation, and environmental degradation and be able to generate sustainable alternatives.
- critically read, interpret, integrate and synthesize abstract sociological arguments and theories.

Career Opportunities

- Correctional Officer
- Criminologist
- Employee Relations Representative
- Employment Counselor
- Human Resource Representative
- Industrial Sociologist
- Market Research Analyst
- Migration Specialist
- Occupational Analyst
- Parole Officer
- Public Health Statistician
- Public Relations Representative
- Research Assistant
- Social Service Employee
- Teacher
- Urban Planner
- Urban Sociologist
- Vocational Rehabilitation Counselor

Features

The department faculty includes both sociologists and social workers who have expertise in the areas of family and interpersonal relationships, social theory, drug and alcohol abuse, applied social research, demography, aging, urban sociology, sports and leisure, sexuality, social conflict and violence, police and society, crime, international development, culture, social psychology, emotions, medical sociology, race and ethnic relations, immigration, and gender.

Major Requirements (B.A.) 61 units

The B.A. degree requires a total of 180 units.

- The core major consists of 61 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult an advisor in your major department for clarification and interpretation of your major requirements.

Lower Division Core (4 units)

Select one course for 4 units:

- SOC 1000 - Introduction to Sociology *Units: 4*
- or*
- SOC 1002 - Introduction to Sociology of Individual and Society *Units: 4*

Upper Division Core (52 units)

Three courses (12 units) in **Research and Theory** required:

- SOC 3310 - Sociological Theory *Units: 4*
- SOC 4111 - Methods of Sociological Research I *Units: 4*
- SOC 4112 - Methods of Sociological Research II *Units: 4*

Diversity Courses

An additional three courses (12 units) required:

- SOC 3200 - Social Demography *Units: 4*
- SOC 3411 - Sociology of Gender *Units: 4*
- SOC 3420 - Social Inequality *Units: 4*
- SOC 3424 - Sociology of Sport *Units: 4*
- SOC 3425 - Prejudice and Discrimination *Units: 4*
- SOC 3431 - Global Society *Units: 4*
- SOC 3520 - Sociology of Race and Ethnic Relations *Units: 4*
- SOC 3550 - Filipino Labor/Immigration *Units: 4*
- SOC 3620 - Sociology of Education *Units: 4*
- SOC 3710 - Social Policy *Units: 4*
- SOC 3712 - Sociology of Travel and Tourism *Units: 4*
- SOC 4200 - Sociology of Sexualities *Units: 4*
- SOC 4450 - Urban Sociology *Units: 4*
- SOC 4790 - Social Control and Society *Units: 4*

Electives Courses

Select 28 units from upper division Sociology courses. **However**, up to 12 units of upper division Statistics may be counted as Sociology electives, selected under advisement.

Courses in Supporting Fields (5 units)

At least 5 units in Statistics is required:

- STAT 1000 - Elements of Probability and Statistics *Units: 5*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

Sociology Minor

Department & Faculty Information

Minor Requirements (28 units)

The minor consists of 28 units and must be declared by the end of Junior year.

I. Lower Division (4 units)

- SOC 1000 - Introduction to Sociology *Units: 4*
- or*
- SOC 1002 - Introduction to Sociology of Individual and Society *Units: 4*

II. Upper Division (8 units)

- SOC 3000 - Introduction to Sociological Research *Units: 4*
- SOC 3310 - Sociological Theory *Units: 4*

III. Electives (16 units)

Select 16 units from any other 3000 or 4000 level sociology courses. (Any Statistics course may be substituted for one Sociology course.)

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Department of Statistics and Biostatistics

The Department Office is located on the 2nd Floor of the North Science (SC-N) building, Room 229.

Open 9:00 a.m. - 6:00 p.m., Monday - Thursday, and 9:00 a.m. - Noon on Fridays.

Dept. Phone: (510) 885-3435

Faculty

Professors

Lynn Eudey, Ph.D. University of California, Berkeley

Shenghua (Kelly) Fan, Ph.D. University of Minnesota

Eric A. Suess, Ph.D. University of California, Davis

Mitchell R. Watnik (Chair), Ph.D. University of California, Davis

YanYan Zhou, Ph.D. University of Maryland

Associate Professor

Joshua D. Kerr, Ph.D. University of California, Davis

Assistant Professor

Ayona Chatterjee, Ph.D. University of Edinburgh (United Kingdom)

Graduate Coordinators: Lynn Eudey & YanYan Zhou

Department Statement

There are many job opportunities locally for Statisticians in many diverse areas of application, such as Biostatistics, Bioinformatics, Medical Statistics, Pharmaceutical, Biotech, Finance, Banking,

Government, Education, Consulting, and many others. So, we encourage you to consider the fields of Statistics and Biostatistics as a program of study, whether graduate or undergraduate. Many of our undergraduate students are double-majors. Math, Economics, and Psychology majors, in particular, have found double-majoring with Statistics to be valuable in getting a job or pursuing higher degrees.

Advising

Bachelor of Science

Statistics, B.S.

Department & Faculty Information

Statistics (B.S.) 180 units

Program Description

Statistics is the science of learning from data, and reporting the results of the analysis. Designs of Experiments are used to plan data collection in experimental settings, such as in medical research. Surveys are used to collect opinions from samples in populations, such as in political polling. Observational data is collected commonly by business as part of standard business processes, such as in website analytics. Statistical methods are used to process data into easily read visual displays, and into summary statistics for interpretation, decision making, and reporting.

Statistics has been a rapidly growing science for many years and has many uses in other fields, such as Econometrics, Business Analytics, Machine Learning, and Visualization. Statistics is widely used by businesses and government organizations to understand changes in the economy and to make forecasts about future events based on past patterns in their data. Statistics is used to model relationships between variables and to predict future values of output variables from input variables. Statistical methods draw accurate inferences about large groups on the basis of a representative sample from the group or population. Descriptive Statistics are used to summarize and visualize the collected data.

The methodology of statistics can be adapted to many types of problems. Due to the extensive development of computers and the collection of large databases, the need for statistical techniques has greatly expanded in recent years. A society like ours, which has become increasingly dependent on its data, has a growing need for statisticians.

Student Learning Outcomes

Students graduating with a B.S. in Statistics from Cal State East Bay will be able to:

- apply basic computational skill in descriptive statistics and graphical displays; hypothesis testing and confidence intervals; modeling and error analysis;
- communicate to others results involving descriptive statistics and graphical displays; hypothesis testing and confidence intervals; modeling and error analysis;
- analyze data using appropriate statistical computer software and to interpret the results covering descriptive statistics and graphical displays; hypothesis testing and confidence intervals; modeling and error analysis.

Career Opportunities

- Actuary
- Biostatistician
- Business Executive
- Census Analyst
- Credit Analyst
- Data Analyst
- Economist
- Financial Modeling Specialist
- Forms Analyst
- Information Systems Analyst
- Insurance Agent
- Market Researcher
- Oddsmaker
- Quality Control Specialist
- Research Statistician
- Sales Analyst
- SAS Programmer
- Statistician
- Survey Designer
- Systems Analyst
- Teacher

Preparation

For Advanced Placement course equivalencies, see the Registration chapter.

The theory of statistics rests on a mathematical foundation. Even for statisticians whose primary interest is in applications, challenging mathematical problems arise continually. Calculus and computer programming are required for the major. An elementary course in linear algebra is highly recommended.

Courses in areas to which statistics is applied will also be helpful. Examples are business, biology, chemistry, geography, social sciences, psychology, and physics.

Community college students are advised to complete the sequence of elementary calculus and analytic geometry courses before transferring to Cal State East Bay. Another excellent lower-division requirement to complete before transferring is a course in introductory computer programming.

Honors in Statistics

Students earning a GPA of 3.6 or higher in courses comprising their major in Statistics will be awarded Honors in the degree provided the coursework applied toward the degree includes the courses listed in areas I and II below.

- Required Courses for Honors (16 units)
- MATH 2101 Elements of Linear Algebra (4)
- MATH 2304 Calculus III (4)
- MATH 3100 Linear Algebra (4) or MATH 3300 Analysis I (4)
- STAT 3402 Introduction to Probability Theory II (4)
- Required Honors Course (4 units)
- STAT 4401 Introduction to Stochastic Processes (4) or STAT 4601 Regression (4) taken as a special honors course with permission of the instructor and the Director of the Honors Program.

Credit/No Credit Courses

It is the policy of the department that no course taken on a "CR/NC" basis may be applied toward any of the requirements. Individual petitions for waiver of this policy will be treated according to the same procedures as petitions to waive other degree requirements.

Double Major

A knowledge of statistical methods is of increasing importance to students in many areas, especially the physical, computing, decision, environmental, biological, political, and social sciences and administrative studies (including business, health care, and education). A second major in statistics along with a major in one of these areas may result in better preparation for employment or graduate study. The following three factors combine to make such a double major feasible in many cases:

- The Statistics major allows for a relatively large number of completely unrestricted elective units. The student may elect courses required for the other major among these.
- Up to twenty units in certain areas outside of Statistics may be applied toward the Statistics degree. (See Area of Emphasis requirement, III.2.)
- Some other majors require Statistics courses that also count towards the Statistics major (e.g., STAT 3010, STAT 3031, STAT 3401, STAT 3502, etc.).

To obtain an illustrative program contact the Department of Statistics and Biostatistics.

Major Requirements (B.S.) 68-94 units

The B.S. degree requires a total of 180 units.

- The core major consists of 68-94 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult an advisor in your major department for clarification and interpretation of your major requirements.

Prerequisite Courses (0-17 units)

The following are prerequisite courses that are required for program recommended coursework:

- MATH 1130 - College Algebra *Units: 4*
- MATH 1810 - Mathematics for Business and Social Sciences *Units: 4*
- MATH 1300 - Trigonometry and Analytic Geometry *Units: 4*

- STAT 1000 - Elements of Probability and Statistics *Units: 5 or*
- STAT 2010 - Elements of Statistics for Business and Economics *Units: 5*

Basic Core (16 units)

Note also prerequisites.

- CS 1020 - Introduction to Computers *Units: 4*
- or*
- CS 1160 - Introduction to Computer Science I *Units: 4*

- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*

And one (1) of the following courses:

- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2304 - Calculus III *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*
- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Upper Division Core (32 units)

Mathematical Statistics and Probability Coursework.

- STAT 3401 - Introduction to Probability Theory I *Units: 4*
- STAT 3502 - Statistical Inference I *Units: 4*
- STAT 3503 - Statistical Inference II *Units: 4*

- STAT 3900 - Data Analysis Using Statistical Packages *Units: 4*
- or*
- STAT 4950 - Advanced Statistical Packages for Data Analysis *Units: 4*

- STAT 4601 - Regression *Units: 4*

Elective Courses

Select 3 courses (12 units) from the following:

- STAT 3402 - Introduction to Probability Theory II *Units: 4*

- STAT 3510 - Sampling Procedures for Surveys *Units: 4*
- STAT 3910 - Statistical Software Usage *Units: 4*
- STAT 4401 - Introduction to Stochastic Processes *Units: 4*
- STAT 4515 - Applied Multivariate Analysis *Units: 4*
- STAT 4610 - Introduction to Nonparametric Statistical Methods *Units: 4*
- STAT 4910 - Advanced Statistical Package Usage *Units: 4*

Area of Emphasis (20 units)

Complete one of the following:

- Twenty units of approved mathematics or statistics courses in addition to those used for the requirements in Sections I and II. MATH 3100 Linear Algebra or MATH 3300 Analysis I should normally be included in these 20 units. These courses are especially recommended for students wishing to apply to the master's degree program in Statistics. MATH 3100 or MATH 3300 is required for students in the departmental honors program.
- Twenty units of approved courses in an approved area. Areas currently approved include the following: Anthropology, Biological Science, Business/Economics, Chemistry, Computer Science, Geography, Geological Sciences, History, Physics, Political Science, Psychology, Sociology. For a complete list of currently approved areas, contact the Department of Statistics and Biostatistics. To gain departmental approval, these courses must include at least one upper division course and be judged to constitute a coherent program of study. (With the approval of the department, upper division Statistics courses, except STAT 3010 Statistical Methods in the Social Sciences and STAT 3031 Statistical Methods in Biology may be applied toward these twenty units.)

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Science

Biostatistics, M.S.

Department & Faculty Information

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Biostatistics. The program is designed to serve the needs of students with varying backgrounds in Statistics, Biological Sciences, Public Health, Computer Science, Mathematics and other sciences. The program includes curriculum designed to prepare students to work in the pharmaceutical and biotech industries. All students are expected to master a wide variety of applied statistical and probabilistic techniques and the theoretical foundations on which these techniques rest. They are expected to be familiar with recent developments and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, a student must satisfy the departmental requirements stated in the following paragraphs.

Student Learning Outcomes

Students graduating with an M.S. in Biostatistics from Cal State East Bay will be able to:

- Apply biostatistical methods to data, including (a) descriptive statistics, probability and graphical displays, (b) distributions, hypothesis testing and confidence intervals, and (c) uncertainty, likelihood, modeling and error analysis;
- Derive basic theory and communicate to others results involving biostatistical data analysis;
- Formulate problem solutions, produce appropriate computer code and to interpret results.

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus, including multiple integration and infinite series.
- Departmental approval.
- For "Classified Graduate" status, fulfillment of the University Writing Skills Requirement.

In addition to the above minimal requirements for admission, if students have some of the following background they will be at an advantage both as to selection for the program and optimal progress toward the degree if admitted:

- basic statistics and probability at the level of STAT 3401, STAT 3502 (or beyond)
- additional mathematics at the level of MATH 2101 and MATH 3100 or MATH 3300 (or beyond)
- knowledge of a computer programming language
- coursework in biology and/or health sciences
- experience in a setting where studies or experiments are conducted for the collection of data

Advancement to Candidacy Requirements

- Completion of at least 15 quarter units of approved work beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Departmental approval. (May be contingent upon a written or oral qualifying examination.)

Degree Requirements

Successful completion of the following unit, grade, and course requirements.

A. Unit and Grade Requirements

The M.S. in Biostatistics program consists of at least 48 quarter units of approved upper division and graduate work. At least 44 of these units must be approved graduate (6000 level) courses. All work applied toward the 48 quarter units must be at an average grade of "B" (3.0) or higher. No required graduate-level course may be at a grade below "B-."

B. Course Requirements (48 units)

Additional courses referred to in section # 3 below must be approved in writing in advance by an advisor.

1. Required First Year Courses (24 units)

- STAT 6204 - Probability Theory *Units: 4*
- STAT 6205 - Statistical Theory *Units: 4*
- STAT 6250 - SAS Programming *Units: 4*
- STAT 6304 - Advanced Statistical Inference *Units: 4*
- STAT 6305 - Analysis of Variance Models *Units: 4*
- STAT 6509 - Theory and Application of Regression *Units: 4*

Students entering the program with acceptable credit for any of these courses (or equivalents) will select additional courses from approved graduate-level coursework, section # 3 below, or courses from other departments designated as acceptable by a graduate advisor. Students entering the program with acceptable credit for any of these courses (or equivalents) will select additional courses from approved graduate-level coursework, section # 3 below, or courses from other departments designated as acceptable by a graduate advisor.

2. Required Second Year Courses (20 units)

- BSTA 6651 - Analysis of Categorical Data in Biostatistics *Units: 4*
- BSTA 6652 - Survival Analysis in Biostatistics *Units: 4*
- BSTA 6653 - Clinical Trials in the Pharmaceutical and Biomedical Industries
Units: 4
- STAT 6501 - Mathematical Statistics I *Units: 4*
- STAT 6502 - Mathematical Statistics II *Units: 4*

3. Additional Courses (4 units)

Select one course from those listed below or, with department approval, select courses in Biostatistics, Biological Sciences, Computer Science, Mathematics, or Statistics. A partial list of courses is given below:

- BSTA 6690 - Statistical Bioinformatics *Units: 4*
- BSTA 6843 - Selected Topics in Biostatistics *Units: 4*
(may select from BSTA 6843-6849 Selected Topics in Biostatistics *Units: 4*)
- STAT 6260 - R Programming *Units: 4*
- STAT 6310 - Advanced Stochastic Processes and Simulation *Units: 4*
- STAT 6401 - Advanced Probability I *Units: 4*
- STAT 6515 - Advanced Multivariate Analysis *Units: 4*

- STAT 6550 - Bayesian Statistics *Units: 4*
- STAT 6555 - Statistical Time Series Analysis *Units: 4*
- STAT 6601 - Advanced Statistical Computing *Units: 4*
- STAT 6610 - Data Visualization *Units: 4*
- STAT 6620 - Statistical Learning with R *Units: 4*
- STAT 6860 - Selected Topics in Graduate Probability and Statistics *Units: 4*
(may select from STAT 6860-6864 Selected Topics in Graduate Probability and Statistics *Units: 4*)
- STAT 6898 - Cooperative Education *Units: 1-4*
- STAT 6900 - Independent Study *Units: 1-4*
- MATH 3100 - Linear Algebra *Units: 4*¹
- MATH 3300 - Analysis I *Units: 4*¹

Notes

1. Students considering additional graduate education in Statistics or Biostatistics are strongly advised to take advanced mathematics coursework.

Comprehensive Examination

Successful completion of a departmental examination is required. This written examination will cover the contents of the courses in the candidate's approved program. Other material may be included, the general nature of which will be specified in advance. The examination will generally be given only in the Fall and Spring quarters, and will cover both applied and theoretical topics.

In each quarter of offering, the department Chair will appoint three or more members of the graduate faculty to administer the examination. Each student will generally take the comprehensive examination in the quarter s(he) intends to graduate or in the preceding quarter, after consulting with the graduate advisor. The examination committee is the final departmental authority in deciding eligibility to take the examination.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Statistics, Actuarial Science Option, M.S.

Department & Faculty Information

Statistics (M.S.) 48 units

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Statistics. The program is flexible in order to serve the needs of students with varying backgrounds (including statistics, mathematics, computer science, engineering, business, economics and other quantitative fields) and with different career objectives. The program includes options in Applied Statistics, Computational Statistics, Mathematical Statistics, and Actuarial Science. All students are expected to master a wide variety of applied statistical, computational, and probabilistic techniques and the theoretical foundations upon which these techniques are based. Students are expected to be familiar with recent developments in the field and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, students must satisfy the departmental requirements stated in the following paragraphs.

Students interested in pursuing an Biostatistics, M.S. can use this link.

Student Learning Outcomes

Students graduating with an M.S. in Statistics from Cal State East Bay will be able to:

- Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis testing and confidence intervals, d) ANOVA and regression models (including linear, and multiple linear) and analysis of residuals from models and trends.
- Derive and understand basic theory underlying these methodologies
- Formulate and model practical problems for solutions using these methodologies
- Produce relevant computer output using standard statistical software and interpret the results appropriately
- Communicate statistical concepts and analytical results clearly and appropriately to others; and
- Understand theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus, including multiple integration and infinite series (MATH 1304, MATH 1305, MATH 2304).
- Departmental approval.
- For "Classified Graduate" status, fulfillment of the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

In addition to the above minimal requirements for admission, if students have some of the following background they will be at an advantage both as to selection for admission to the program and optimal progress toward the degree if admitted:

- basic statistics and probability at the level of STAT 3401, STAT 3502 (or beyond)
- additional mathematics at the level of MATH 2101 (or beyond)
- knowledge of a computer programming language
- experience in a setting where studies or experiments are conducted for the collection of data.

Advancement to Candidacy Requirements

- Completion of at least 15 quarter units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Departmental approval.

Unit and Grade Requirements

The M.S. in Statistics program consists of at least 48 quarter units of approved upper division and graduate work. The university requirement for the minimum number of 6000-level units applies. All work applied toward the 48 units must be at an average grade of "B" (3.0) or higher. No graduate-level required course may be at a grade below "B-."

Comprehensive Examination

Successful completion of a departmental examination is required. This written examination will cover the contents of the courses in the candidate's approved program. Other material may be included, the general nature of which will be specified in advance. The examination is given only in the Fall and Spring quarters, and will cover both applied and theoretical topics.

In each quarter of offering, the department Chair will appoint three or more members of the graduate faculty to administer the examination. Each student will generally take the Comprehensive Examination in the quarter of intended graduation or in the preceding quarter, after consulting with the graduate advisor. Students enrolled in the Actuarial Science Option may substitute a passing grade on an approved national actuarial exam for a designated portion of the comprehensive examination, with the approval of the graduate advisor. The examination committee is the final departmental authority in deciding eligibility to take the examination.

Degree Requirements

Successful completion of the following unit, grade, and course requirements.

Core Requirements (28 units)

Required core courses:

- STAT 6204 - Probability Theory *Units: 4*
- STAT 6205 - Statistical Theory *Units: 4*
- STAT 6304 - Advanced Statistical Inference *Units: 4*
- STAT 6305 - Analysis of Variance Models *Units: 4*
- STAT 6501 - Mathematical Statistics I *Units: 4*
- STAT 6502 - Mathematical Statistics II *Units: 4*
- STAT 6509 - Theory and Application of Regression *Units: 4*

Elective or Option Requirements (20 units)

To complete the Masters program in Statistics students are required to pursue one (1) of four options or 20 units of approved electives:

- Statistics, M.S. (with electives)

- Statistics, Actuarial Science Option, M.S.
- Statistics, Applied Statistics Option, M.S.
- Statistics, Computational Statistics Option, M.S.
- Statistics, Mathematical Statistics Option, M.S.

Actuarial Science Option

Graduate coursework in the College of Business and Economics relevant to insurance, finance, and operations research is recommended. Areas of interest include stochastic modeling, force of mortality, life tables, and other topics from actuarial mathematics.

Required Courses:

- STAT 6310 - Advanced Stochastic Processes and Simulation *Units: 4*
- or*
- STAT 6401 - Advanced Probability I *Units: 4*
- One course from STAT 6851 - STAT 6859 Selected Topics in Actuarial and Decision Science *Units: 4*
- One approved 6000-level course from the College of Business and Economics *Units: 4*
- Two additional approved 6000-level courses from statistics *Units: 8*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Statistics, Applied Statistics Option, M.S.

Department & Faculty Information

Statistics (M.S.) 48 units

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Statistics. The program is flexible in order to serve the needs of students with varying backgrounds (including statistics, mathematics, computer science, engineering, business, economics and other quantitative fields) and with different career objectives. The program includes options in Applied Statistics, Computational Statistics, Mathematical Statistics, and Actuarial Science. All students are expected to master a wide variety of applied statistical, computational, and probabilistic techniques and

the theoretical foundations upon which these techniques are based. Students are expected to be familiar with recent developments in the field and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, students must satisfy the departmental requirements stated in the following paragraphs.

Students interested in pursuing an Biostatistics, M.S. can use this link.

Student Learning Outcomes

Students graduating with an M.S. in Statistics from Cal State East Bay will be able to:

- Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis testing and confidence intervals, d) ANOVA and regression models (including linear, and multiple linear) and analysis of residuals from models and trends.
- Derive and understand basic theory underlying these methodologies
- Formulate and model practical problems for solutions using these methodologies
- Produce relevant computer output using standard statistical software and interpret the results appropriately
- Communicate statistical concepts and analytical results clearly and appropriately to others; and
- Understand theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus, including multiple integration and infinite series (MATH 1304, MATH 1305, MATH 2304).
- Departmental approval.
- For "Classified Graduate" status, fulfillment of the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

In addition to the above minimal requirements for admission, if students have some of the following background they will be at an advantage both as to selection for admission to the program and optimal progress toward the degree if admitted:

- basic statistics and probability at the level of STAT 3401, STAT 3502 (or beyond)
- additional mathematics at the level of MATH 2101 (or beyond)
- knowledge of a computer programming language
- experience in a setting where studies or experiments are conducted for the collection of data.

Advancement to Candidacy Requirements

- Completion of at least 15 quarter units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Departmental approval.

Unit and Grade Requirements

The M.S. in Statistics program consists of at least 48 quarter units of approved upper division and graduate work. The university requirement for the minimum number of 6000-level units applies. All work applied toward the 48 units must be at an average grade of "B" (3.0) or higher. No graduate-level required course may be at a grade below "B-."

Comprehensive Examination

Successful completion of a departmental examination is required. This written examination will cover the contents of the courses in the candidate's approved program. Other material may be included, the general nature of which will be specified in advance. The examination is given only in the Fall and Spring quarters, and will cover both applied and theoretical topics.

In each quarter of offering, the department Chair will appoint three or more members of the graduate faculty to administer the examination. Each student will generally take the Comprehensive Examination in the quarter of intended graduation or in the preceding quarter, after consulting with the graduate advisor. Students enrolled in the Actuarial Science Option may substitute a passing grade on an approved national actuarial exam for a designated portion of the comprehensive examination, with the approval of the graduate advisor. The examination committee is the final departmental authority in deciding eligibility to take the examination.

Degree Requirements

Successful completion of the following unit, grade, and course requirements.

Core Requirements (28 units)

Required core courses:

- STAT 6204 - Probability Theory *Units: 4*
- STAT 6205 - Statistical Theory *Units: 4*
- STAT 6304 - Advanced Statistical Inference *Units: 4*
- STAT 6305 - Analysis of Variance Models *Units: 4*
- STAT 6501 - Mathematical Statistics I *Units: 4*
- STAT 6502 - Mathematical Statistics II *Units: 4*
- STAT 6509 - Theory and Application of Regression *Units: 4*

Elective or Option Requirements (20 units)

To complete the Masters program in Statistics students are required to pursue one (1) of four options or 20 units of approved electives:

- Statistics, M.S. (with electives)
- Statistics, Actuarial Science Option, M.S.
- Statistics, Applied Statistics Option, M.S.
- Statistics, Computational Statistics Option, M.S.
- Statistics, Mathematical Statistics Option, M.S.

Applied Statistics Option

Topics include a broad background in the practice of statistics, including data modeling and the use of computing packages for data analysis.

Required Courses:

Choose at least one course from:

- STAT 6250 - SAS Programming *Units: 4*
- STAT 6260 - R Programming *Units: 4*
- Additional three graduate electives in statistics or biostatistics, approved by a graduate advisor. *Units: 12*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Statistics, Computational Statistics Option, M.S.

Department & Faculty Information

Statistics (M.S.) 48 units

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Statistics. The program is flexible in order to serve the needs of students with varying backgrounds (including statistics, mathematics, computer science, engineering, business, economics and other quantitative fields) and with different career objectives. The program includes options in Applied Statistics, Computational Statistics, Mathematical Statistics, and Actuarial Science. All students are expected to master a wide variety of applied statistical, computational, and probabilistic techniques and the theoretical foundations upon which these techniques are based. Students are expected to be familiar with recent developments in the field and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, students must satisfy the departmental requirements stated in the following paragraphs.

Students interested in pursuing an Biostatistics, M.S. can use this link.

Student Learning Outcomes

Students graduating with an M.S. in Statistics from Cal State East Bay will be able to:

- Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis testing and confidence intervals, d) ANOVA and regression models (including linear, and multiple linear) and analysis of residuals from models and trends.
- Derive and understand basic theory underlying these methodologies
- Formulate and model practical problems for solutions using these methodologies
- Produce relevant computer output using standard statistical software and interpret the results appropriately
- Communicate statistical concepts and analytical results clearly and appropriately to others; and
- Understand theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus, including multiple integration and infinite series (MATH 1304, MATH 1305, MATH 2304).
- Departmental approval.
- For "Classified Graduate" status, fulfillment of the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

In addition to the above minimal requirements for admission, if students have some of the following background they will be at an advantage both as to selection for admission to the program and optimal progress toward the degree if admitted:

- basic statistics and probability at the level of STAT 3401, STAT 3502 (or beyond)
- additional mathematics at the level of MATH 2101 (or beyond)
- knowledge of a computer programming language
- experience in a setting where studies or experiments are conducted for the collection of data.

Advancement to Candidacy Requirements

- Completion of at least 15 quarter units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Departmental approval.

Unit and Grade Requirements

The M.S. in Statistics program consists of at least 48 quarter units of approved upper division and graduate work. The university requirement for the minimum number of 6000-level units applies. All work applied toward the 48 units must be at an average grade of "B" (3.0) or higher. No graduate-level required course may be at a grade below "B-."

Comprehensive Examination

Successful completion of a departmental examination is required. This written examination will cover the contents of the courses in the candidate's approved program. Other material may be included, the general nature of which will be specified in advance. The examination is given only in the Fall and Spring quarters, and will cover both applied and theoretical topics.

In each quarter of offering, the department Chair will appoint three or more members of the graduate faculty to administer the examination. Each student will generally take the Comprehensive Examination in the quarter of intended graduation or in the preceding quarter, after consulting with the graduate advisor. Students enrolled in the Actuarial Science Option may substitute a passing grade on an approved national actuarial exam for a designated portion of the comprehensive examination, with the approval of the graduate advisor. The examination committee is the final departmental authority in deciding eligibility to take the examination.

Degree Requirements

Successful completion of the following unit, grade, and course requirements.

Core Requirements (28 units)

Required core courses:

- STAT 6204 - Probability Theory *Units: 4*
- STAT 6205 - Statistical Theory *Units: 4*
- STAT 6304 - Advanced Statistical Inference *Units: 4*
- STAT 6305 - Analysis of Variance Models *Units: 4*
- STAT 6501 - Mathematical Statistics I *Units: 4*
- STAT 6502 - Mathematical Statistics II *Units: 4*
- STAT 6509 - Theory and Application of Regression *Units: 4*

Elective or Option Requirements (20 units)

To complete the Masters program in Statistics students are required to pursue one (1) of four options or 20 units of approved electives:

- Statistics, M.S. (with electives)
- Statistics, Actuarial Science Option, M.S.
- Statistics, Applied Statistics Option, M.S.
- Statistics, Computational Statistics Option, M.S.
- Statistics, Mathematical Statistics Option, M.S.

Computational Statistics Option

Topics include regression modeling, multivariate statistics, factor analysis, Monte Carlo simulations, Markov Chain, Monte Carlo methods, bootstrapping, data mining, and other computationally intensive methods.

Required Courses:

Choose three courses from:

- STAT 6250 - SAS Programming *Units: 4*
- STAT 6260 - R Programming *Units: 4*
- STAT 6310 - Advanced Stochastic Processes and Simulation *Units: 4*
- STAT 6515 - Advanced Multivariate Analysis *Units: 4*
- STAT 6550 - Bayesian Statistics *Units: 4*
- STAT 6555 - Statistical Time Series Analysis *Units: 4*
- STAT 6601 - Advanced Statistical Computing *Units: 4*
- STAT 6610 - Data Visualization *Units: 4*
- STAT 6620 - Statistical Learning with R *Units: 4*

Choose two additional courses from those not taken above, or:

- One approved course from:
- STAT 6860 - Selected Topics in Graduate Probability and Statistics *Units: 4*
- STAT 6861 - Selected Topics in Graduate Probability and Statistics *Units: 4*
- STAT 6862 - Selected Topics in Graduate Probability and Statistics *Units: 4*
- STAT 6863 - Selected Topics in Graduate Probability and Statistics *Units: 4*
- STAT 6864 - Selected Topics in Graduate Probability and Statistics *Units: 4*

And:

- STAT 6865 - Mathematical Modeling *Units: 4*
- One approved upper-division or graduate level course in computer science *Units: 4* (graduate level preferred)

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Statistics, M.S.

Department & Faculty Information

Statistics (M.S.) 48 units

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Statistics. The program is flexible in order to serve the needs of students with varying backgrounds (including statistics, mathematics, computer science, engineering, business, economics and other quantitative fields) and with different career objectives. The program includes options in Applied Statistics, Computational Statistics, Mathematical Statistics, and Actuarial Science. All students are expected to master a wide variety of applied statistical, computational, and probabilistic techniques and the theoretical foundations upon which these techniques are based. Students are expected to be familiar with recent developments in the field and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, students must satisfy the departmental requirements stated in the following paragraphs.

Students interested in pursuing an Biostatistics, M.S. can use this link.

Student Learning Outcomes

Students graduating with an M.S. in Statistics from Cal State East Bay will be able to:

- Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis testing and confidence intervals, d) ANOVA and regression models (including linear, and multiple linear) and analysis of residuals from models and trends.
- Derive and understand basic theory underlying these methodologies
- Formulate and model practical problems for solutions using these methodologies
- Produce relevant computer output using standard statistical software and interpret the results appropriately
- Communicate statistical concepts and analytical results clearly and appropriately to others; and
- Understand theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus, including multiple integration and infinite series (MATH 1304, MATH 1305, MATH 2304).
- Departmental approval.
- For "Classified Graduate" status, fulfillment of the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

In addition to the above minimal requirements for admission, if students have some of the following background they will be at an advantage both as to selection for admission to the program and optimal progress toward the degree if admitted:

- basic statistics and probability at the level of STAT 3401, STAT 3502 (or beyond)
- additional mathematics at the level of MATH 2101 (or beyond)
- knowledge of a computer programming language
- experience in a setting where studies or experiments are conducted for the collection of data.

Advancement to Candidacy Requirements

- Completion of at least 15 quarter units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Departmental approval.

Unit and Grade Requirements

The M.S. in Statistics program consists of at least 48 quarter units of approved upper division and graduate work. The university requirement for the minimum number of 6000-level units applies. All work applied toward the 48 units must be at an average grade of "B" (3.0) or higher. No graduate-level required course may be at a grade below "B-."

Comprehensive Examination

Successful completion of a departmental examination is required. This written examination will cover the contents of the courses in the candidate's approved program. Other material may be included, the general nature of which will be specified in advance. The examination is given only in the Fall and Spring quarters, and will cover both applied and theoretical topics.

In each quarter of offering, the department Chair will appoint three or more members of the graduate faculty to administer the examination. Each student will generally take the Comprehensive Examination in the quarter of intended graduation or in the preceding quarter, after consulting with the graduate advisor. Students enrolled in the Actuarial Science Option may substitute a passing grade on an approved national actuarial exam for a designated portion of the comprehensive examination, with the approval of the graduate advisor. The examination committee is the final departmental authority in deciding eligibility to take the examination.

Degree Requirements

Successful completion of the following unit, grade, and course requirements.

Core Requirements (28 units)

Required core courses:

- STAT 6204 - Probability Theory *Units: 4*
- STAT 6205 - Statistical Theory *Units: 4*
- STAT 6304 - Advanced Statistical Inference *Units: 4*
- STAT 6305 - Analysis of Variance Models *Units: 4*
- STAT 6501 - Mathematical Statistics I *Units: 4*
- STAT 6502 - Mathematical Statistics II *Units: 4*
- STAT 6509 - Theory and Application of Regression *Units: 4*

Elective or Option Requirements (20 units)

To complete the Masters program in Statistics students are required to pursue one (1) of four options or 20 units of approved electives:

- Statistics, M.S. (with electives)

- Statistics, Actuarial Science Option, M.S.
- Statistics, Applied Statistics Option, M.S.
- Statistics, Computational Statistics Option, M.S.
- Statistics, Mathematical Statistics Option, M.S.

Electives

Students NOT pursuing an option must complete 20 units of advanced courses, chosen with the advanced written approval of an advisor.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Statistics, Mathematical Statistics Option, M.S.

Department & Faculty Information

Statistics (M.S.) 48 units

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Statistics. The program is flexible in order to serve the needs of students with varying backgrounds (including statistics, mathematics, computer science, engineering, business, economics and other quantitative fields) and with different career objectives. The program includes options in Applied Statistics, Computational Statistics, Mathematical Statistics, and Actuarial Science. All students are expected to master a wide variety of applied statistical, computational, and probabilistic techniques and the theoretical foundations upon which these techniques are based. Students are expected to be familiar with recent developments in the field and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, students must satisfy the departmental requirements stated in the following paragraphs.

Students interested in pursuing an Biostatistics, M.S. can use this link.

Student Learning Outcomes

Students graduating with an M.S. in Statistics from Cal State East Bay will be able to:

- Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis testing and confidence intervals, d) ANOVA and regression models (including linear, and multiple linear) and analysis of residuals from models and trends.
- Derive and understand basic theory underlying these methodologies
- Formulate and model practical problems for solutions using these methodologies
- Produce relevant computer output using standard statistical software and interpret the results appropriately
- Communicate statistical concepts and analytical results clearly and appropriately to others; and
- Understand theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus, including multiple integration and infinite series (MATH 1304, MATH 1305, MATH 2304).
- Departmental approval.
- For "Classified Graduate" status, fulfillment of the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

In addition to the above minimal requirements for admission, if students have some of the following background they will be at an advantage both as to selection for admission to the program and optimal progress toward the degree if admitted:

- basic statistics and probability at the level of STAT 3401, STAT 3502 (or beyond)
- additional mathematics at the level of MATH 2101 (or beyond)
- knowledge of a computer programming language
- experience in a setting where studies or experiments are conducted for the collection of data.

Advancement to Candidacy Requirements

- Completion of at least 15 quarter units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Departmental approval.

Unit and Grade Requirements

The M.S. in Statistics program consists of at least 48 quarter units of approved upper division and graduate work. The university requirement for the minimum number of 6000-level units applies. All work applied toward the 48 units must be at an average grade of "B" (3.0) or higher. No graduate-level required course may be at a grade below "B-."

Comprehensive Examination

Successful completion of a departmental examination is required. This written examination will cover the contents of the courses in the candidate's approved program. Other material may be included, the general nature of which will be specified in advance. The examination is given only in the Fall and Spring quarters, and will cover both applied and theoretical topics.

In each quarter of offering, the department Chair will appoint three or more members of the graduate faculty to administer the examination. Each student will generally take the Comprehensive Examination in the quarter of intended graduation or in the preceding quarter, after consulting with the graduate advisor. Students enrolled in the Actuarial Science Option may substitute a passing grade on an approved national actuarial exam for a designated portion of the comprehensive examination, with the approval of the graduate advisor. The examination committee is the final departmental authority in deciding eligibility to take the examination.

Degree Requirements

Successful completion of the following unit, grade, and course requirements.

Core Requirements (28 units)

Required core courses:

- STAT 6204 - Probability Theory *Units: 4*
- STAT 6205 - Statistical Theory *Units: 4*
- STAT 6304 - Advanced Statistical Inference *Units: 4*
- STAT 6305 - Analysis of Variance Models *Units: 4*
- STAT 6501 - Mathematical Statistics I *Units: 4*
- STAT 6502 - Mathematical Statistics II *Units: 4*
- STAT 6509 - Theory and Application of Regression *Units: 4*

Elective or Option Requirements (20 units)

To complete the Masters program in Statistics students are required to pursue one (1) of four options or 20 units of approved electives:

- Statistics, M.S. (with electives)
- Statistics, Actuarial Science Option, M.S.
- Statistics, Applied Statistics Option, M.S.
- Statistics, Computational Statistics Option, M.S.
- Statistics, Mathematical Statistics Option, M.S.

Mathematical Statistics Option

Advanced coursework in mathematics is strongly recommended, particularly MATH 3100 - Linear Algebra and MATH 3300 - Analysis I (real analysis)

Required Courses:

- Choose four additional, approved upper-division or graduate level courses (16 units) in mathematics or graduate level courses in statistics. Ordinarily, these would be at the 4000- or 6000-level.

And choose one (1) course from the following:

- STAT 6310 - Advanced Stochastic Processes and Simulation *Units: 4*
- STAT 6401 - Advanced Probability I *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Biostatistics Minor

Department & Faculty Information

Minor Requirements (24 units)

The minor consists of 24 units. Note that some courses require prerequisites not required in the minor.

Required Courses (16 units)

- STAT 3031 - Statistical Methods in Biology *Units: 4*
 - STAT 4000 - Analysis of Variance in the Behavioral Sciences *Units: 4*
- or*
- STAT 3502 - Statistical Inference I *Units: 4*
 - STAT 3503 - Statistical Inference II *Units: 4*
- (second sequence is preferred; however, it requires calculus.)
- STAT 4601 - Regression *Units: 4*
 - STAT 4950 - Advanced Statistical Packages for Data Analysis *Units: 4*

Elective courses (8 units)

Two upper division courses in statistics not included in required coursework.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Statistics Minor

Department & Faculty Information

Minor Requirements (24-25 units)

Prerequisites

Note prerequisite information:

- STAT 1000 is prerequisite for many of the required courses
- Six courses not involving calculus prerequisites are approved for all students in the minor
- With consent of a Statistics Department advisor, any upper division Statistics course with a calculus prerequisite may be substituted for any courses required for the minor.

Prerequisites that are not included in total minor units:

- MATH 1130 - College Algebra *Units: 4*

Core Requirement

Choose one (1) of the following courses:

- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 2010 - Elements of Statistics for Business and Economics *Units: 5*
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Electives

Under the advisement of the Statistics Department choose five (5) of the following:

- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*
- STAT 3050 - Statistics: from Data to Decisions *Units: 4*
- STAT 3502 - Statistical Inference I *Units: 4*
- STAT 3503 - Statistical Inference II *Units: 4*

- STAT 3510 - Sampling Procedures for Surveys *Units: 4*
- STAT 3601 - Statistics and Probability for Science and Engineering I *Units: 4*
- STAT 3900 - Data Analysis Using Statistical Packages *Units: 4*
- STAT 3910 - Statistical Software Usage *Units: 4*
- STAT 4000 - Analysis of Variance in the Behavioral Sciences *Units: 4*
- STAT 4515 - Applied Multivariate Analysis *Units: 4*
- STAT 4601 - Regression *Units: 4*
- STAT 4610 - Introduction to Nonparametric Statistical Methods *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Certificate (Graduate) Program

Applied Statistics Certificate

Department & Faculty Information

The Certificate in Applied Statistics combines basic work in statistics, which is required for many majors and graduate degree programs, with additional coursework in applied statistics. The coursework is designed to broaden the abilities of scientists and social scientists who already have degrees, but who need more training in applying statistics to their research and employment activities.

The minimum required GPA for the awarding of the certificate is 2.0. Consult an advisor in the Department of Statistics and Biostatistics for clarification and interpretation of requirements. The certificate consists of 24-25 units, plus 4-5 units of prerequisites. At least 4 units must be at the graduate level.

Core Courses (12-13 units)

Applied Statistical Methodology (8-9 units)

Choose one of the following five pairs of courses:

- STAT 2010 - Elements of Statistics for Business and Economics *Units: 5*
- STAT 4000 - Analysis of Variance in the Behavioral Sciences *Units: 4*

or

- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4 and*
- STAT 4000 - Analysis of Variance in the Behavioral Sciences *Units: 4 or*
- STAT 6010 - Applied Analysis of Variance *Units: 4*

or

- STAT 3031 - Statistical Methods in Biology *Units: 4 and*
- STAT 4000 - Analysis of Variance in the Behavioral Sciences *Units: 4 or*
- STAT 6010 - Applied Analysis of Variance *Units: 4*

or

- STAT 3502 - Statistical Inference I *Units: 4*
- STAT 3503 - Statistical Inference II *Units: 4*

or

- STAT 3602 - Statistics and Probability for Science and Engineering II *Units: 4 and*
- STAT 3601 - Statistics and Probability for Science and Engineering I *Units: 4 or*
- STAT 5601 - Introductory Statistics and Probability for Science and Engineering *Units: 4 (or cross-listed ENGR 5601).*

Data Analysis Using Statistical Packages (4 units)

- STAT 3900 - Data Analysis Using Statistical Packages *Units: 4*
- or
- STAT 4950 - Advanced Statistical Packages for Data Analysis *Units: 4*
- or
- STAT 6250 - SAS Programming *Units: 4*

A person skilled in statistical programming may provide evidence of such proficiency and substitute a course for one of these, with the approval of an advisor.

Electives (12 units)

Choose from the following courses not taken above:

- STAT 3050 - Statistics: from Data to Decisions *Units: 4*
- STAT 3510 - Sampling Procedures for Surveys *Units: 4*
- STAT 3910 - Statistical Software Usage *Units: 4*
- STAT 4515 - Applied Multivariate Analysis *Units: 4*
- STAT 4601 - Regression *Units: 4*
- STAT 4610 - Introduction to Nonparametric Statistical Methods *Units: 4*

- STAT 4860 - Undergraduate Seminar *Units: 4 or*
- STAT 4869 - Undergraduate Seminar *Units: 4*
- STAT 5300 - Quality Engineering *Units: 4 or cross-listed ENGR 5300.*
- STAT 6010 - Applied Analysis of Variance *Units: 4*
- STAT 6011 - Statistical Modeling for Management and Economics *Units: 4*
- STAT 6020 - Statistical Methods in Clinical Trials *Units: 4*
- STAT 6300 - Applied Quality Assurance *Units: 4 or cross-listed ENGR 6300.*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Mathematical Statistics Certificate

Department & Faculty Information

The Certificate in Mathematical Statistics is designed to enhance a student's understanding of theoretical statistics and probability in preparation for employment in the engineering, information science, and technology sectors. The certificate also prepares students for further graduate study.

The minimum required GPA for the awarding of the certificate is 3.0. Consult an advisor in the Department of Statistics and Biostatistics for clarification and interpretation of requirements. The certificate consists of 16 graduate level units, plus any necessary prerequisites. All required courses are cross-listed with Mathematics.

Prerequisites

Click on the course link to see the course description for prerequisites.

A. Core Courses (12 units)

- STAT 6401 - Advanced Probability I *Units: 4*
- STAT 6501 - Mathematical Statistics I *Units: 4*
- STAT 6502 - Mathematical Statistics II *Units: 4*

B. Electives (4 units)

Choose at least one course with the advance approval of an advisor.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Department of Teacher Education

The Department Office is located on the 2nd Floor of the AE building, Room 250.

Open Hours: 8:30 am to 5:00 pm Monday through Friday.

Dept. Phone: (510) 885-3028

Faculty

Professors Emeriti

Joan D. Davenport, Ph.D. University of Pittsburgh

Phillip E. Duren, Ph.D. The Ohio State University

James J. Zarrillo, Ph.D. Claremont Graduate School

Associate Professor Emerita

Jeanette M. Bicais, Ph.D. University of California, Berkeley

Professors

Li-Ling Chen, Ph.D. University of Texas at Austin

Denise M. Fleming, Ph.D. University of California, Berkeley

Bijan B. Gillani, Ed.D. University of Southern California

Shira Lubliner, Ed.D. University of San Francisco

James M. Mitchell, Ph.D. University of Minnesota, Minneapolis

Carolyn Nelson, Ed.D. University of San Francisco

Lettie Ramirez, Ph.D. University of Texas at Austin

Associate Professors

Eric Engdahl (Chair), Ph.D. University of California, Los Angeles

Valerie A. Helgren-Lempesis, Ed.D. University of Miami

Michele Korb, Ph.D. Marquette University

Assistant Professors

Julie McNamara, Ph.D. University of California, Berkeley

Lyn Scott, Ph.D., University of California, Berkeley

Mary Soto, Ed.D. University of Texas at Brownsville

Mission Statement

We prepare teachers who are dedicated to the academic achievement of all students, and who demonstrate a commitment to life-long, professional growth and school leadership. The Department of Teacher Education offers post-baccalaureate and graduate programs to prepare teachers who are committed to improving school practices for California's diverse student populations and who can model such practices in their own classrooms.

Credential (Post-Baccalaureate) Programs

Multiple Subject Credential: Blended Liberal Studies Major (Bachelor's Plus Early Pathway)

Department & Faculty Information

Note: This site only lists requirement for the credential, it does not list all the requirements for the blended program. For the information concerning the blended B.A. degree requirements see: Liberal Studies, Teacher Preparation Option B.A. (also including BPEP Pathway). Additional information can also be found here: Bachelors Plus: Early Pathway Liberal Studies/Credential Program (BPEP).

Teaching Credential Programs

Credential requirements specified in this catalog are subject to changes made by the State of California.

Contact the [Department of Teacher Education](#) or the Credential Student Services Center (CSSC) for current regulations.

Admission

Department application deadlines differ from those listed by the University. Please contact the Credential Student Services Center (CSSC) for program application deadlines.

Multiple or Single Subject Credential Programs

Before applying to the Multiple Subject or Single Subject Credential Program, all applicants should attend a "Credential Information Session." Several sessions are held every month except July and August. Students can also register for a session on the CSSC website.

All applicants must submit the following documents to the CSSC:

- A completed copy of the online University "Graduate and Post Baccalaureate Application" (see Calstate.edu/Apply)
- A completed online "Department of Teacher Education" application;
- One official copy of your degree-granting institutional transcript
- Two letters of recommendation; both letters must demonstrate suitable aptitude for teaching in public schools;
- Academic letters of recommendation are not acceptable.
- Letters should be dated within 3 years.
- The letters should be written by someone who has observed you teaching or working with students in the age group of the credential sought.
- Both letters must be on official letterhead, signed, and dated. If letterhead is not available, include a business card.

Requirements for Admission

Applicants must submit the following documents for admission to the Multiple and Single Subject Teaching Credential programs:

- Statement of Purpose - 300-500 words, typed, double-spaced; see department application for questions.
- Subject Matter Competency.
- Single Subject applicants must either:
 - Pass the relevant California Subject Examination for Teachers (CSET), or
 - Obtain a waiver for the CSET by completing an approved subject matter preparation program at a CSU.
- Multiple Subject applicants must:
 - Pass all three of the Multiple Subjects tests offered in the California Subject Examinations for Teachers (CSET)
 - Pass a U.S. Constitution course or exam
 - Pass a basic educational skills test approved by the California Commission on Teacher Credentialing (CTC).
 - Earn a 2.67 cumulative grade point average or 2.75 in the last 60 semester units in a baccalaureate degree.
 - 45 hours of Early Field Experience:
 - Documented field experience of at least 45 hours in a K-12 classroom or classroom-like setting with groups of children: multiple subject, children 5-11 years of age and single subject youth aged 12 - 17 years.
 - At least 15 hours must be in a public school classroom setting within the last two years.
 - An acceptable public school experience includes work as a substitute teacher, para-educator, instructional aids, or classroom volunteer.
 - Faith-based instruction is not acceptable.
 - The remaining 30 of the 45 hours minimum must have been satisfied within the last three years.
 - These hours may be completed in public or private school settings; in community-based venues, such as the YMCA, park recreations center, or in a structured summer camp, after-school, or other formally organized educational program.

- Submit the Early Field Experience Verification form. Use as many forms as needed to verify the total hours.
- This requirement may be partially fulfilled by enrollment in TED 3001.
- CTC Certificate of Clearance.
- Submit a TB clearance dated within two years.

Admission Process

Applicants are required to attend an admission interview. Successful applicants are notified by email from the CSSC after the interview. Applicants may receive a "Conditional Acceptance" pending receipt of documents.

Credential Requirements

The Single Subject Credential is the credential that authorizes the teaching of a specific subject in a departmentalized classroom. The Multiple Subject Credential is the basic credential that authorizes the teaching of all subjects in a self-contained, elementary school classroom.

Curricular Requirements for Blended Liberal Studies Major/Multiple Subject Credential (64 units)

- TED 5110 - Computer-Based Technology in the Classroom I *Units: 3*
- TED 5211 - TPA Subject-Specific Pedagogy Task I Assessment *Units: 1*
- TED 5212 - TPA Designing Instruction Task II Assessment *Units: 1*
- TED 5213 - TPA Assessing Learning Task III Assessment *Units: 1*
- TED 5214 - TPA Culminating Teaching Experience Task IV Assessment *Units: 1*
- TED 5311 - Classroom Environment *Units: 2*
- TED 5350 - Curriculum and Instruction: Mathematics in the Elementary School *Units: 3*
- TED 5351 - Psychological Foundations of Education and Planning for Instruction *Units: 4*
- TED 5352 - Curriculum and Instruction: Reading/Language Arts in the Elementary School-A *Units: 3*
- TED 5354 - Student Teaching I *Units: 5*
- TED 5355 - Equity and Diversity/Teaching English Learners A *Units: 4*
- TED 5356 - Curriculum and Instruction: Reading/Language Arts in the Elementary School-B *Units: 3*
- TED 5357 - Curriculum and Instruction: Teaching Science, Health and Safety in the Elementary School *Units: 3*
- TED 5359 - Student Teaching II *Units: 6*
- TED 5360 - Curriculum and Instruction: Reading/Language Arts and Social Studies in the Elementary School *Units: 4*
- TED 5361 - Student Teaching III *Units: 6*
- TED 5366 - Equity and Diversity/Teaching English Learners B *Units: 3*

- TED 5372 - Team Seminar I: Orientation to TPA Subject-Specific Pedagogy Task I and Reflection on Field Practice *Units: 1*
- TED 5373 - Team Seminar II: Orientation to TPA Designing Instruction Task II and Reflection on Field Practice *Units: 1*
- TED 5374 - Team Seminar III: Orientation to TPA Assessing Learning Task III and Reflection on Field Practice *Units: 1*
- TED 5375 - Team Seminar IV: Orientation to TPA Culminating Teaching Experience Task IV and Reflection on Field Practice *Units: 1*
- TED 5376 - Curriculum and Instruction: Physical Education Methods *Units: 1*
- TED 5377 - Curriculum and Instruction: Visual and Performing Arts Methods *Units: 2*
- TED 5378 - Teaching Special Populations in General Education Settings *Units: 4*

Field Experience Requirements:

All candidates will complete two supervised field experiences, either as a student teacher or an intern. Field assignments begin in late August with the beginning of the K-12 school year and continue, with breaks at different times, until June.

Performance Assessment for California Teachers (PACT) Tutorials:

Any candidate who fails a TPA task must enroll in the appropriate TPA Tutorial course(s):

- TED 5061 - TPA Subject-Specific Pedagogy Task I Tutorial *Units: 2*
- TED 5062 - TPA Designing Instruction Task II Tutorial *Units: 2*
- TED 5063 - TPA Culminating Teaching Experience Task III Tutorial *Units: 2*
- TED 5064 - TPA Culminating Teaching Experience Task IV Tutorial *Units: 2*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Multiple Subject Credential: Concurrent Education Specialist/Multiple Subject Credential Program

Department & Faculty Information

Teaching Credential Programs

Credential requirements specified in this catalog are subject to changes made by the State of California.

Contact the [Department of Teacher Education](#) or the Credential Student Services Center (CSSC) for current regulations.

Admission

Department application deadlines differ from those listed by the University. Please contact the Credential Student Services Center (CSSC) for program application deadlines.

Multiple or Single Subject Credential Programs

Before applying to the Multiple Subject or Single Subject Credential Program, all applicants should attend a "Credential Information Session." Several sessions are held every month except July and August. Students can also register for a session on the CSSC website.

All applicants must submit the following documents to the CSSC:

- A completed copy of the online University "Graduate and Post Baccalaureate Application" (see Calstate.edu/Apply)
- A completed online "Department of Teacher Education" application;
- One official copy of your degree-granting institutional transcript
- Two letters of recommendation; both letters must demonstrate suitable aptitude for teaching in public schools;
- Academic letters of recommendation are not acceptable.
- Letters should be dated within 3 years.
- The letters should be written by someone who has observed you teaching or working with students in the age group of the credential sought.
- Both letters must be on official letterhead, signed, and dated. If letterhead is not available, include a business card.

Requirements for Admission

Applicants must submit the following documents for admission to the Multiple and Single Subject Teaching Credential programs:

- Statement of Purpose - 300-500 words, typed, double-spaced; see department application for questions.
- Subject Matter Competency.
- Single Subject applicants must either:
 - Pass the relevant California Subject Examination for Teachers (CSET), or
 - Obtain a waiver for the CSET by completing an approved subject matter preparation program at a CSU.
- Multiple Subject applicants must:
 - Pass all three of the Multiple Subjects tests offered in the California Subject Examinations for Teachers (CSET)
 - Pass a U.S. Constitution course or exam
 - Pass a basic educational skills test approved by the California Commission on Teacher Credentialing (CTC).
 - Earn a 2.67 cumulative grade point average or 2.75 in the last 60 semester units in a baccalaureate degree.
- 45 hours of Early Field Experience:
 - Documented field experience of at least 45 hours in a K-12 classroom or classroom-like setting with groups of children: multiple subject, children 5-11 years of age and single subject youth aged 12 - 17 years.
 - At least 15 hours must be in a public school classroom setting within the last two years.

- An acceptable public school experience includes work as a substitute teacher, para-educator, instructional aids, or classroom volunteer.
- Faith-based instruction is not acceptable.
- The remaining 30 of the 45 hours minimum must have been satisfied within the last three years.
- These hours may be completed in public or private school settings; in community-based venues, such as the YMCA, park recreations center, or in a structured summer camp, after-school, or other formally organized educational program.
- Submit the Early Field Experience Verification form. Use as many forms as needed to verify the total hours.
- This requirement may be partially fulfilled by enrollment in TED 3001.
- CTC Certificate of Clearance.
- Submit a TB clearance dated within two years.

Admission Process

Applicants are required to attend an admission interview. Successful applicants are notified by email from the CSSC after the interview. Applicants may receive a "Conditional Acceptance" pending receipt of documents.

Credential Requirements

The Single Subject Credential is the credential that authorizes the teaching of a specific subject in a departmentalized classroom. The Multiple Subject Credential is the basic credential that authorizes the teaching of all subjects in a self-contained, elementary school classroom.

Curricular Requirements for the Multiple Subject Credential and Concurrent Education Specialist Credential Program (64 units)

The requirements for the Preliminary Education Specialist Credentials are listed here. This is a two-year program, and the schedule of course offerings will vary with each entering cohort., please see the Department of Educational Psychology for further information.

- Preliminary Education Specialist Credential: Mild-Moderate Disabilities
- Preliminary Education Specialist Credential: Moderate-Severe Disabilities

In this program, candidates earn both Multiple Subject and Educational Specialist Credentials (either Mild-Moderate or Moderate-Severe).

- Special Education, Mild-Moderate Disabilities Option, M.S.
- Special Education, Moderate-Severe Disabilities Option, M.S.

The requirements for the Multiple Subject Credential are listed below:

- EPSY 5021 - Introduction to Educating all Students in Diverse Classrooms *Units: 4*
- TED 5110 - Computer-Based Technology in the Classroom I *Units: 3*
- TED 5211 - TPA Subject-Specific Pedagogy Task I Assessment *Units: 1*
- TED 5212 - TPA Designing Instruction Task II Assessment *Units: 1*

- TED 5213 - TPA Assessing Learning Task III Assessment *Units: 1*
- TED 5214 - TPA Culminating Teaching Experience Task IV Assessment *Units: 1*
- TED 5311 - Classroom Environment *Units: 2*
- TED 5350 - Curriculum and Instruction: Mathematics in the Elementary School *Units: 3*
- TED 5351 - Psychological Foundations of Education and Planning for Instruction *Units: 4*
- TED 5352 - Curriculum and Instruction: Reading/Language Arts in the Elementary School-A *Units: 3*
- TED 5354 - Student Teaching I *Units: 5*
- TED 5355 - Equity and Diversity/Teaching English Learners A *Units: 4*
- TED 5356 - Curriculum and Instruction: Reading/Language Arts in the Elementary School-B *Units: 3*
- TED 5357 - Curriculum and Instruction: Teaching Science, Health and Safety in the Elementary School *Units: 3*
- TED 5359 - Student Teaching II *Units: 6*
- TED 5360 - Curriculum and Instruction: Reading/Language Arts and Social Studies in the Elementary School *Units: 4*
- TED 5366 - Equity and Diversity/Teaching English Learners B *Units: 3*
- TED 5372 - Team Seminar I: Orientation to TPA Subject-Specific Pedagogy Task I and Reflection on Field Practice *Units: 1*
- TED 5373 - Team Seminar II: Orientation to TPA Designing Instruction Task II and Reflection on Field Practice *Units: 1*
- TED 5374 - Team Seminar III: Orientation to TPA Assessing Learning Task III and Reflection on Field Practice *Units: 1*
- TED 5375 - Team Seminar IV: Orientation to TPA Culminating Teaching Experience Task IV and Reflection on Field Practice *Units: 1*
- TED 5376 - Curriculum and Instruction: Physical Education Methods *Units: 1*
- TED 5377 - Curriculum and Instruction: Visual and Performing Arts Methods *Units: 2*

Field Experience Requirements:

All candidates will complete two supervised field experiences, either as a student teacher or an intern. Field assignments begin in late August with the beginning of the K-12 school year and continue, with breaks at different times, until June.

Teaching Performance Assessment (TPA) Tutorials:

Any candidate who fails a TPA task must enroll in the appropriate TPA Tutorial course(s):

- TED 5061 - TPA Subject-Specific Pedagogy Task I Tutorial *Units: 2*
- TED 5062 - TPA Designing Instruction Task II Tutorial *Units: 2*
- TED 5063 - TPA Culminating Teaching Experience Task III Tutorial *Units: 2*
- TED 5064 - TPA Culminating Teaching Experience Task IV Tutorial *Units: 2*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Multiple Subject Credential: Standard Pathway

Department & Faculty Information

Teaching Credential Programs

Credential requirements specified in this catalog are subject to changes made by the State of California.

Contact the [Department of Teacher Education](#) or the Credential Student Services Center (CSSC) for current regulations.

Admission

Department application deadlines differ from those listed by the University. Please contact the Credential Student Services Center (CSSC) for program application deadlines.

Multiple or Single Subject Credential Programs

Before applying to the Multiple Subject or Single Subject Credential Program, all applicants should attend a "Credential Information Session." Several sessions are held every month except July and August. Students can also register for a session on the CSSC website.

All applicants must submit the following documents to the CSSC:

- A completed copy of the online University "Graduate and Post Baccalaureate Application" (see Calstate.edu/Apply)
- A completed online "Department of Teacher Education" application;
- One official copy of your degree-granting institutional transcript
- Two letters of recommendation; both letters must demonstrate suitable aptitude for teaching in public schools;
- Academic letters of recommendation are not acceptable.
- Letters should be dated within 3 years.
- The letters should be written by someone who has observed you teaching or working with students in the age group of the credential sought.
- Both letters must be on official letterhead, signed, and dated. If letterhead is not available, include a business card.

Requirements for Admission

Applicants must submit the following documents for admission to the Multiple and Single Subject Teaching Credential programs:

- Statement of Purpose - 300-500 words, typed, double-spaced; see department application for questions.

- Subject Matter Competency.
- Single Subject applicants must either:
 - Pass the relevant California Subject Examination for Teachers (CSET), or
 - Obtain a waiver for the CSET by completing an approved subject matter preparation program at a CSU.
- Multiple Subject applicants must:
 - Pass all three of the Multiple Subjects tests offered in the California Subject Examinations for Teachers (CSET)
 - Pass a U.S. Constitution course or exam
 - Pass a basic educational skills test approved by the California Commission on Teacher Credentialing (CTC).
 - Earn a 2.67 cumulative grade point average or 2.75 in the last 60 semester units in a baccalaureate degree.
 - 45 hours of Early Field Experience:
 - Documented field experience of at least 45 hours in a K-12 classroom or classroom-like setting with groups of children: multiple subject, children 5-11 years of age and single subject youth aged 12 - 17 years.
 - At least 15 hours must be in a public school classroom setting within the last two years.
 - An acceptable public school experience includes work as a substitute teacher, para-educator, instructional aids, or classroom volunteer.
 - Faith-based instruction is not acceptable.
 - The remaining 30 of the 45 hours minimum must have been satisfied within the last three years.
 - These hours may be completed in public or private school settings; in community-based venues, such as the YMCA, park recreations center, or in a structured summer camp, after-school, or other formally organized educational program.
 - Submit the Early Field Experience Verification form. Use as many forms as needed to verify the total hours.
 - This requirement may be partially fulfilled by enrollment in TED 3001.
 - CTC Certificate of Clearance.
 - Submit a TB clearance dated within two years.

Admission Process

Applicants are required to attend an admission interview. Successful applicants are notified by email from the CSSC after the interview. Applicants may receive a "Conditional Acceptance" pending receipt of documents.

Credential Requirements

The Single Subject Credential is the credential that authorizes the teaching of a specific subject in a departmentalized classroom. The Multiple Subject Credential is the basic credential that authorizes the teaching of all subjects in a self-contained, elementary school classroom.

Curricular Requirements for Multiple Subject Credential - Standard Pathway (64 units)

Candidates may complete the Multiple Subject Credential Program - Standard Pathway at the Hayward or Concord campuses. The program is four quarters, beginning summer quarter.

- TED 5110 - Computer-Based Technology in the Classroom I *Units: 3*
- TED 5211 - TPA Subject-Specific Pedagogy Task I Assessment *Units: 1*
- TED 5212 - TPA Designing Instruction Task II Assessment *Units: 1*
- TED 5213 - TPA Assessing Learning Task III Assessment *Units: 1*
- TED 5214 - TPA Culminating Teaching Experience Task IV Assessment *Units: 1*
- TED 5311 - Classroom Environment *Units: 2*
- TED 5350 - Curriculum and Instruction: Mathematics in the Elementary School *Units: 3*
- TED 5351 - Psychological Foundations of Education and Planning for Instruction *Units: 4*
- TED 5352 - Curriculum and Instruction: Reading/Language Arts in the Elementary School-A *Units: 3*
- TED 5354 - Student Teaching I *Units: 5*
- TED 5355 - Equity and Diversity/Teaching English Learners A *Units: 4*
- TED 5356 - Curriculum and Instruction: Reading/Language Arts in the Elementary School-B *Units: 3*
- TED 5357 - Curriculum and Instruction: Teaching Science, Health and Safety in the Elementary School *Units: 3*
- TED 5359 - Student Teaching II *Units: 6*
- TED 5360 - Curriculum and Instruction: Reading/Language Arts and Social Studies in the Elementary School *Units: 4*
- TED 5361 - Student Teaching III *Units: 6*
- TED 5366 - Equity and Diversity/Teaching English Learners B *Units: 3*
- TED 5372 - Team Seminar I: Orientation to TPA Subject-Specific Pedagogy Task I and Reflection on Field Practice *Units: 1*
- TED 5373 - Team Seminar II: Orientation to TPA Designing Instruction Task II and Reflection on Field Practice *Units: 1*
- TED 5374 - Team Seminar III: Orientation to TPA Assessing Learning Task III and Reflection on Field Practice *Units: 1*
- TED 5375 - Team Seminar IV: Orientation to TPA Culminating Teaching Experience Task IV and Reflection on Field Practice *Units: 1*
- TED 5376 - Curriculum and Instruction: Physical Education Methods *Units: 1*
- TED 5377 - Curriculum and Instruction: Visual and Performing Arts Methods *Units: 2*
- TED 5378 - Teaching Special Populations in General Education Settings *Units: 4*

Field experience requirements:

All candidates will complete two supervised field experiences, either as a student teacher or an intern. Field assignments begin in late August with the beginning of the K-12 school year and continue, with breaks at different times, until June.

Teaching Performance Assessment (TPA) Tutorials:

Any candidate who fails a TPA task must enroll in the appropriate TPA Tutorial course(s):

- TED 5061 - TPA Subject-Specific Pedagogy Task I Tutorial *Units: 2*
- TED 5062 - TPA Designing Instruction Task II Tutorial *Units: 2*
- TED 5063 - TPA Culminating Teaching Experience Task III Tutorial *Units: 2*
- TED 5064 - TPA Culminating Teaching Experience Task IV Tutorial *Units: 2*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Multiple Subject Credential: TK3 Pathway

Department & Faculty Information

Teaching Credential Programs

Credential requirements specified in this catalog are subject to changes made by the State of California.

Contact the [Department of Teacher Education](#) or the Credential Student Services Center (CSSC) for current regulations.

Admission

Department application deadlines differ from those listed by the University. Please contact the Credential Student Services Center (CSSC) for program application deadlines.

Multiple or Single Subject Credential Programs

Before applying to the Multiple Subject or Single Subject Credential Program, all applicants should attend a "Credential Information Session." Several sessions are held every month except July and August. Students can also register for a session on the CSSC website.

All applicants must submit the following documents to the CSSC:

- A completed copy of the online University "Graduate and Post Baccalaureate Application" (see Calstate.edu/Apply)
- A completed online "Department of Teacher Education" application;
- One official copy of your degree-granting institutional transcript
- Two letters of recommendation; both letters must demonstrate suitable aptitude for teaching in public schools;
- Academic letters of recommendation are not acceptable.
- Letters should be dated within 3 years.
- The letters should be written by someone who has observed you teaching or working with students in the age group of the credential sought.

- Both letters must be on official letterhead, signed, and dated. If letterhead is not available, include a business card.

Requirements for Admission

Applicants must submit the following documents for admission to the Multiple and Single Subject Teaching Credential programs:

- Statement of Purpose - 300-500 words, typed, double-spaced; see department application for questions.
- Subject Matter Competency.
- Single Subject applicants must either:
 - Pass the relevant California Subject Examination for Teachers (CSET), or
 - Obtain a waiver for the CSET by completing an approved subject matter preparation program at a CSU.
- Multiple Subject applicants must:
 - Pass all three of the Multiple Subjects tests offered in the California Subject Examinations for Teachers (CSET)
 - Pass a U.S. Constitution course or exam
 - Pass a basic educational skills test approved by the California Commission on Teacher Credentialing (CTC).
 - Earn a 2.67 cumulative grade point average or 2.75 in the last 60 semester units in a baccalaureate degree.
 - 45 hours of Early Field Experience:
 - Documented field experience of at least 45 hours in a K-12 classroom or classroom-like setting with groups of children: multiple subject, children 5-11 years of age and single subject youth aged 12 - 17 years.
 - At least 15 hours must be in a public school classroom setting within the last two years.
 - An acceptable public school experience includes work as a substitute teacher, para-educator, instructional aids, or classroom volunteer.
 - Faith-based instruction is not acceptable.
 - The remaining 30 of the 45 hours minimum must have been satisfied within the last three years.
 - These hours may be completed in public or private school settings; in community-based venues, such as the YMCA, park recreations center, or in a structured summer camp, after-school, or other formally organized educational program.
 - Submit the Early Field Experience Verification form. Use as many forms as needed to verify the total hours.
 - This requirement may be partially fulfilled by enrollment in TED 3001.
 - CTC Certificate of Clearance.
 - Submit a TB clearance dated within two years.

Admission Process

Applicants are required to attend an admission interview. Successful applicants are notified by email from the CSSC after the interview. Applicants may receive a "Conditional Acceptance" pending receipt of documents.

Credential Requirements

The Single Subject Credential is the credential that authorizes the teaching of a specific subject in a departmentalized classroom. The Multiple Subject Credential is the basic credential that authorizes the teaching of all subjects in a self-contained, elementary school classroom.

Curricular Requirements for Multiple Subject Credential - TK3 Pathway (64 units)

- TED 5378 - Teaching Special Populations in General Education Settings *Units: 4*
- TED 5549 - Foundations of Teaching: Principles and Practices in Early Childhood Education *Units: 6*
- TED 5550 - Psychological Foundations of Education and Classroom Environments *Units: 4*
- TED 5551 - Curriculum and Instruction: Mathematics and Technology in the Elementary School *Units: 4*
- TED 5552 - Curriculum and Instruction: Reading/Language Arts in the Elementary School - A *Units: 4*
- TED 5553 - Curriculum and Instruction: Reading/Language Arts in the Elementary School - B *Units: 4*
- TED 5554 - Curriculum and Instruction: Teaching English Learners in the Elementary School *Units: 4*
- TED 5555 - Curriculum and Instruction: Science, Health, Safety, and Technology in the Elementary School *Units: 4*
- TED 5556 - Curriculum and Instruction: Equity, Diversity and Social Studies in the Elementary School *Units: 4*
- TED 5557 - Curriculum and Instruction: Visual & Performing Arts and Physical Education Methods in the Elementary School *Units: 3*
- TED 5560 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar I *Units: 1*
- TED 5561 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar II *Units: 1*
- TED 5562 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar III *Units: 1*
- TED 5563 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar IV *Units: 1*
- TED 5564 - Multiple Subject Transitional Kindergarten to Grade 3 PACT Seminar I *Units: 1*
- TED 5565 - Multiple Subject Transitional Kindergarten to Grade 3 PACT Seminar II *Units: 1*
- TED 5566 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching I *Units: 2*
- TED 5567 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching II *Units: 4*

- TED 5568 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching III *Units: 5*
- TED 5569 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching IV *Units: 6*

Field Experience Requirements:

All candidates will complete three supervised field experiences, either as a student teacher or an intern. Field assignments begin during the Summer Quarter in early July and continue, with breaks at different times, until June.

Performance Assessment of California Teachers (PACT) Tutorials:

Any candidate who fails a component of PACT must enroll in a special section of the TPA tutorials listed above.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Single Subject Credential

Department & Faculty Information

Teaching Credential Programs

Credential requirements specified in this catalog are subject to changes made by the State of California.

Contact the [Department of Teacher Education](#) or the Credential Student Services Center (CSSC) for current regulations.

Admission

Department application deadlines differ from those listed by the University. Please contact the Credential Student Services Center (CSSC) for program application deadlines.

Multiple or Single Subject Credential Programs

Before applying to the Multiple Subject or Single Subject Credential Program, all applicants should attend a "Credential Information Session." Several sessions are held every month except July and August. Students can also register for a session on the CSSC website.

All applicants must submit the following documents to the CSSC:

- A completed copy of the online University "Graduate and Post Baccalaureate Application" (see Calstate.edu/Apply)

- A completed online "Department of Teacher Education" application;
- One official copy of your degree-granting institutional transcript
- Two letters of recommendation; both letters must demonstrate suitable aptitude for teaching in public schools;
- Academic letters of recommendation are not acceptable.
- Letters should be dated within 3 years.
- The letters should be written by someone who has observed you teaching or working with students in the age group of the credential sought.
- Both letters must be on official letterhead, signed, and dated. If letterhead is not available, include a business card.

Requirements for Admission

Applicants must submit the following documents for admission to the Multiple and Single Subject Teaching Credential programs:

- Statement of Purpose - 300-500 words, typed, double-spaced; see department application for questions.
- Subject Matter Competency.
- Single Subject applicants must either:
 - Pass the relevant California Subject Examination for Teachers (CSET), or
 - Obtain a waiver for the CSET by completing an approved subject matter preparation program at a CSU.
- Multiple Subject applicants must:
 - Pass all three of the Multiple Subjects tests offered in the California Subject Examinations for Teachers (CSET)
 - Pass a U.S. Constitution course or exam
 - Pass a basic educational skills test approved by the California Commission on Teacher Credentialing (CTC).
 - Earn a 2.67 cumulative grade point average or 2.75 in the last 60 semester units in a baccalaureate degree.
- 45 hours of Early Field Experience:
 - Documented field experience of at least 45 hours in a K-12 classroom or classroom-like setting with groups of children: multiple subject, children 5-11 years of age and single subject youth aged 12 - 17 years.
 - At least 15 hours must be in a public school classroom setting within the last two years.
 - An acceptable public school experience includes work as a substitute teacher, para-educator, instructional aids, or classroom volunteer.
 - Faith-based instruction is not acceptable.
 - The remaining 30 of the 45 hours minimum must have been satisfied within the last three years.
 - These hours may be completed in public or private school settings; in community-based venues, such as the YMCA, park recreations center, or in a structured summer camp, after-school, or other formally organized educational program.
 - Submit the Early Field Experience Verification form. Use as many forms as needed to verify the total hours.
 - This requirement may be partially fulfilled by enrollment in TED 3001.
 - CTC Certificate of Clearance.
 - Submit a TB clearance dated within two years.

Admission Process

Applicants are required to attend an admission interview. Successful applicants are notified by email from the CSSC after the interview. Applicants may receive a "Conditional Acceptance" pending receipt of documents.

Credential Requirements

The Single Subject Credential is the credential that authorizes the teaching of a specific subject in a departmentalized classroom. The Multiple Subject Credential is the basic credential that authorizes the teaching of all subjects in a self-contained, elementary school classroom.

Single Subject Credential Requirements

The Single Subject Credential authorizes teaching in one subject area of the curriculum. This credential is required for almost all high school and middle school positions and for a few elementary "specialist" positions. The credential is offered in the following areas: art, English, mathematics, music, physical education, science, world languages, and social studies.

Curricular Requirements (64 units)

Core Requirements (43 units)

- TED 5110 - Computer-Based Technology in the Classroom I *Units: 3*
- TED 5211 - TPA Subject-Specific Pedagogy Task I Assessment *Units: 1*
- TED 5212 - TPA Designing Instruction Task II Assessment *Units: 1*
- TED 5213 - TPA Assessing Learning Task III Assessment *Units: 1*
- TED 5214 - TPA Culminating Teaching Experience Task IV Assessment *Units: 1*
- TED 5301 - Psychological Foundations in Middle and Secondary School Education *Units: 4*
- TED 5305 - Social/Cultural Context of Education *Units: 3*
- TED 5311 - Classroom Environment *Units: 2*
- TED 5314 - Teaching Special Populations in Regular Classrooms *Units: 3*
- TED 5318 - Professional Responsibilities *Units: 3*
- TED 5320 - Content Literacy *Units: 3*
- TED 5326 - Preparation to Teach English Learners in the Single Subject Classroom *Units: 3*
- TED 5372 - Team Seminar I: Orientation to TPA Subject-Specific Pedagogy Task I and Reflection on Field Practice *Units: 1*
- TED 5373 - Team Seminar II: Orientation to TPA Designing Instruction Task II and Reflection on Field Practice *Units: 1*
- TED 5374 - Team Seminar III: Orientation to TPA Assessing Learning Task III and Reflection on Field Practice *Units: 1*
- TED 5375 - Team Seminar IV: Orientation to TPA Culminating Teaching Experience Task IV and Reflection on Field Practice *Units: 1*
- TED 5380 - Health and Safety in the Secondary School *Units: 2*

Area I

Choose one course from:

- TED 5446 - Social Studies I - Instructional Methods in Single Subject Classroom *Units: 2*
- TED 5450 - English I - Instructional Methods in Single Subject Classroom *Units: 3*
- TED 5454 - Math I - Instructional Methods in Single Subject Classroom *Units: 3*
- TED 5458 - Science I - Instructional Methods in Single Subject Classroom *Units: 3*
- TED 5462 - ART I - Instructional Methods in Single Subject Classroom *Units: 3*
- TED 5466 - Music I - Instructional Methods in Single Subject Classroom *Units: 3*
- TED 5470 - Spanish I - Instructional Methods in Single Subject Classroom *Units: 3*
- TED 5474 - Hindi I - Instructional Methods in Single Subject Classroom *Units: 3*
- TED 5478 - PhysEd I - Instructional Methods in Single Subject Classroom *Units: 3*

Area II: Focus on Differentiated Instruction

Choose one course from:

- TED 5447 - Social Studies II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction *Units: 2*
- TED 5451 - English II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction *Units: 2*
- TED 5455 - Math II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction *Units: 2*
- TED 5459 - Science II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction *Units: 2*
- TED 5463 - ART II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction *Units: 2*
- TED 5467 - Music II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction *Units: 2*
- TED 5471 - Spanish II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction *Units: 2*
- TED 5475 - Hindi II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction *Units: 2*
- TED 5479 - PhysEd II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction *Units: 2*

Area III: Focus on Literacy

Choose one from:

- TED 5448 - Social Studies III - Instructional Methods in Single Subject Classroom: Focus on Literacy *Units: 2*
- TED 5452 - English III - Instructional Methods in Single Subject Classroom: Focus on Literacy *Units: 2*
- TED 5456 - Math III - Instructional Methods in Single Subject Classroom: Focus on Literacy *Units: 2*
- TED 5460 - Science III - Instructional Methods in Single Subject Classroom: Focus on Literacy *Units: 2*
- TED 5464 - ART III - Instructional Methods in Single Subject Classroom: Focus on Literacy *Units: 2*
- TED 5468 - Music III - Instructional Methods in Single Subject Classroom: Focus on Literacy *Units: 2*
- TED 5472 - Spanish III - Instructional Methods in Single Subject Classroom: Focus on Literacy *Units: 2*
- TED 5476 - Hindi III - Instructional Methods in Single Subject Classroom: Focus on Literacy *Units: 2*
- TED 5480 - PhysEd III - Instructional Methods in Single Subject Classroom: Focus on Literacy *Units: 2*

Area IV: Focus on Equity

Choose one from:

- TED 5449 - Social Studies IV - Instructional Methods in Single Subject Classroom: Focus on Equity *Units: 2*
- TED 5453 - English IV - Instructional Methods in Single Subject Classroom: Focus on Equity *Units: 2*
- TED 5457 - Math IV - Instructional Methods in Single Subject Classroom: Focus on Equity *Units: 2*
- TED 5461 - Science IV - Instructional Methods in Single Subject Classroom: Focus on Equity *Units: 2*
- TED 5465 - ART IV - Instructional Methods in Single Subject Classroom: Focus on Equity *Units: 2*
- TED 5469 - Music IV - Instructional Methods in Single Subject Classroom: Focus on Equity *Units: 2*
- TED 5473 - Spanish IV - Instructional Methods in Single Subject Classroom: Focus on Equity *Units: 2*
- TED 5477 - Hindi IV - Instructional Methods in Single Subject Classroom: Focus on Equity *Units: 2*
- TED 5481 - PhysEd IV - Instructional Methods in Single Subject Classroom: Focus on Equity *Units: 2*

Field experience requirements:

All candidates will complete two supervised field experiences, either as a student teacher or an intern. Field assignments begin in September with the beginning of the K-12 school year and continue, with breaks at different times, until June.

Teaching Performance Assessment (TPA) Tutorials: Any candidate who fails a TPA task must enroll in the appropriate TPA Tutorial course(s):

- TED 5061 - TPA Subject-Specific Pedagogy Task I Tutorial *Units: 2*
- TED 5062 - TPA Designing Instruction Task II Tutorial *Units: 2*
- TED 5063 - TPA Culminating Teaching Experience Task III Tutorial *Units: 2*
- TED 5064 - TPA Culminating Teaching Experience Task IV Tutorial *Units: 2*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Master of Science

Education, Curriculum Option, M.S.

Department & Faculty Information

Education (M.S.) 45 units

The Department of Teacher Education offers four options for the Master of Science in Education degree:

- Early Childhood Education,
- Curriculum,
- Educational Technology Leadership, and
- Reading Instruction & Reading Certificate (Added Authorization).

Admission

Upon admission to the university, a student with a baccalaureate degree usually is in "Unclassified Post-Baccalaureate" standing. An "Unclassified Post-Baccalaureate" student may enroll in those courses for which the prerequisites have been met. The department will not count courses taken to remove deficiencies toward degree requirements. No more than 13 units taken in "Unclassified Post-Baccalaureate" status can be applied toward a master's degree. This includes approved credit-bearing extension courses, transfer courses, and residence courses taken before admission to the master's degree program. Lower division, non-credit Extension, and Credit/No Credit (Pass/Fail) courses are not applicable to the degree except courses offered only for Credit/No Credit (Pass/Fail). Filing for a substitution for this last item is up to the student. Seven units of coursework from a basic credential program (Multiple or Single Subject) may be applied toward a master's degree.

A student with minor deficiencies in the requirements below may be admitted to a program as a "Conditionally Classified Graduate" student.

To be awarded "Classified Graduate" standing, a student must:

- have a GPA of 3.0 or better in all upper division work in the major and in all post-baccalaureate work;
- hold a valid teaching credential and/or show evidence of successful classroom teaching experience as determined by the department. (May be waived for a student in the Option in Early Childhood Education.);
- have met the University Writing Skills Requirement. (For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661)

Advancement to Candidacy

To be Advanced to Candidacy for the degree, a student must:

- have met the University Writing Skills Requirement;
- (For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661)
- be a "Classified Graduate" student in good standing;
- have completed at least 35 quarter units considered by the Department to be applicable toward the degree requirements with a GPA of 3.0 or better;
- have an approved program of study for the degree (on a Major Check Form) signed by the advisor;
- have completed or be currently enrolled in TED 6020, Research in Education;
- have been approved for Advancement to Candidacy by the department on recommendation of faculty teaching in the student's area of study-
- This is initiated by filing the form, Petition to Establish Thesis/Project Committee, with a thesis or project abstract attached, or by obtaining permission to register for the Graduate Synthesis course.

GPA Requirement

A student must maintain a GPA of 3.0 or higher in all courses taken in the approved program signed by the advisor, whether the courses are taken at Cal State East Bay or elsewhere. A student whose GPA falls below 3.0 will be placed on probationary status, will be subject to disqualification from the program, and may be recommended for dismissal from the university. (The department also requires that the use of the "CR/NC" grade option in any course applied to a master's and/or certificate program must be approved in advance by the Graduate Coordinator.)

Degree Requirements (45 units)

To receive the M.S. degree in Education, a student must have:

- been Advanced to Candidacy;
- completed 45-53 quarter units of approved graduate work, subject to the following conditions:
- all units must have been earned within the past five (5) years immediately preceding completion of the requirements for the degree;
- no fewer than thirty-two (32) quarter units may have been completed in residence (i.e., after admission to the program, as a regularly matriculated student) in the graduate program at Cal State East Bay;
- no fewer than three (3) nor more than six (6) quarter units may have been assigned to a University Thesis nor more than five (5) to a Department Thesis or Project, nor fewer than four (4) in the Graduate Synthesis course;
- no more than thirteen (13) quarter units of approved courses may be transferred from another institution, taken through approved extension courses (including Open University), or taken as an "Unclassified Post-Baccalaureate" student;

- at least twenty-two and one-half (22.5) quarter units must have been in courses in the 6000 series or equivalent graduate level;
- satisfied the University Writing Skills Requirement; (For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661);
- earned at least a 3.0 GPA in all post-baccalaureate work and in all graduate work at Cal State East Bay and in all units satisfying the requirements of the degree program;
- completed a University Thesis acceptable to the university, or a Department Thesis or Project acceptable to the department faculty, or completed the Graduate Synthesis course which includes passing a Comprehensive Examination;
- met, within five (5) years of admission to the program, the specific requirements of that program.

Graduation

A student must apply to graduate and request a degree check during the first two (2) weeks of the quarter prior to the quarter in which completion of the program is expected. Students must apply online and pay the required fee.

Core Foundation Courses (4-12 units)

The following foundation course is required for all options in the M.S. in Education program:

- TED 6020 - Research in Education *Units: 4*

An additional 8 units of core foundation courses are required for students pursuing the following options: Curriculum, Early Childhood Education, or Educational Technology Leadership.

- TED 6300 - Foundations of Curriculum Development *Units: 4*
- TED 6700 - Advanced Educational Psychology *Units: 4*

Capstone Requirements (4 units)

Pending Department and Professor approval, all M.S. in Education students must complete one (1) capstone course for a minimum of 4 units from the following:

- TED 6899 - Project *Units: 2-5*
- TED 6901 - Graduate Synthesis *Units: 4*
- TED 6909 - Departmental Thesis *Units: 2-5*
- TED 6910 - University Thesis *Units: 1-6 Note: this capstone not for Reading Instruction Option students.*

Option Requirements (16-29 units)

Students must choose one (1) of the following options to complete the M.S. in Education degree:

- Education, Curriculum Option, M.S.
- Education, Early Childhood Education Option, M.S.
- Education, Educational Technology Leadership Option, M.S.
- Education, Reading Instruction Option, M.S.; and Reading Certificate (Added Authorization)

The M.S. in Education, Online Teaching and Learning Option is an *online-only* program offered through the Division of Continuing and International Education (DCIE), University Extension and has different requirements for completion:

- Education, Online Teaching and Learning Option, M.S.

Curriculum Option

The Curriculum Option is designed to provide advanced special preparation or competencies for teachers and other educational professionals at all grade levels. The Curriculum Option is based on four core foundation courses and electives. The program is accredited by the National Council for the Accreditation of Teacher Education.

Student Learning Outcomes

Students graduating with an M.S. in Education, Option in Curriculum from Cal State East Bay will be able to:

- Identify, describe, and evaluate the multiple factors that influence K-12 curricula in California public schools (e.g., state standards, federal policies, policies of discipline-specific professional organizations);
- Develop an in-depth understanding of contemporary issues in curriculum and instruction in an area of professional interest;
- Utilize a variety of bibliographic tools to write a comprehensive review of the literature for a topic of professional interest; and
- Complete an action research project investigating a topic as it relates to the field of Education.

Elective Courses (16-29 units)

Depending on the number of units transfer in to the program, all students will complete 16-29 units of elective courses from the Department of Teacher Education.

Counting the 16 units of core courses, 22.5 units of coursework must be at the 6000 level. Students may use the 20 units of required coursework for the State of California Reading Certificate (Added Authorization) as elective units for the Curriculum Option. The program coordinator must approve all elective units.

Transfer Course Units (0-13 units)

13 quarter units (9 semester) from a graduate level credential program from an accredited university. Courses transferring into the master's must be from a completed credential program. Continuing Education/Extension units from other universities cannot be transferred into the MS program. All units cannot be older than 7 years upon completion of the MS in Education program. No courses (undergraduate or graduate level) used toward the completion of the terminal degree from CSUEB or any other university are permitted. In the event that the student does not have units to be transferred, 13 units can be taken in electives.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Education, Early Childhood Education Option, M.S.

Department & Faculty Information

Education (M.S.) 45 units

The Department of Teacher Education offers four options for the Master of Science in Education degree:

- Early Childhood Education,
- Curriculum,
- Educational Technology Leadership, and
- Reading Instruction & Reading Certificate (Added Authorization).

Admission

Upon admission to the university, a student with a baccalaureate degree usually is in "Unclassified Post-Baccalaureate" standing. An "Unclassified Post-Baccalaureate" student may enroll in those courses for which the prerequisites have been met. The department will not count courses taken to remove deficiencies toward degree requirements. No more than 13 units taken in "Unclassified Post-Baccalaureate" status can be applied toward a master's degree. This includes approved credit-bearing extension courses, transfer courses, and residence courses taken before admission to the master's degree program. Lower division, non-credit Extension, and Credit/No Credit (Pass/Fail) courses are not applicable to the degree except courses offered only for Credit/No Credit (Pass/Fail). Filing for a substitution for this last item is up to the student. Seven units of coursework from a basic credential program (Multiple or Single Subject) may be applied toward a master's degree.

A student with minor deficiencies in the requirements below may be admitted to a program as a "Conditionally Classified Graduate" student.

To be awarded "Classified Graduate" standing, a student must:

- have a GPA of 3.0 or better in all upper division work in the major and in all post-baccalaureate work;
- hold a valid teaching credential and/or show evidence of successful classroom teaching experience as determined by the department. (May be waived for a student in the Option in Early Childhood Education.);
- have met the University Writing Skills Requirement. (For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661)

Advancement to Candidacy

To be Advanced to Candidacy for the degree, a student must:

- have met the University Writing Skills Requirement;
- (For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661)
- be a "Classified Graduate" student in good standing;
- have completed at least 35 quarter units considered by the Department to be applicable toward the degree requirements with a GPA of 3.0 or better;
- have an approved program of study for the degree (on a Major Check Form) signed by the advisor;
- have completed or be currently enrolled in TED 6020, Research in Education;
- have been approved for Advancement to Candidacy by the department on recommendation of faculty teaching in the student's area of study-
- This is initiated by filing the form, Petition to Establish Thesis/Project Committee, with a thesis or project abstract attached, or by obtaining permission to register for the Graduate Synthesis course.

GPA Requirement

A student must maintain a GPA of 3.0 or higher in all courses taken in the approved program signed by the advisor, whether the courses are taken at Cal State East Bay or elsewhere. *A student whose GPA falls below 3.0 will be placed on probationary status, will be subject to disqualification from the program, and may be recommended for dismissal from the university. (The department also requires that the use of the "CR/NC" grade option in any course applied to a master's and/or certificate program must be approved in advance by the Graduate Coordinator.)*

Degree Requirements (45 units)

To receive the M.S. degree in Education, a student must have:

- been Advanced to Candidacy;
- completed 45-53 quarter units of approved graduate work, subject to the following conditions:
- all units must have been earned within the past five (5) years immediately preceding completion of the requirements for the degree;
- no fewer than thirty-two (32) quarter units may have been completed in residence (i.e., after admission to the program, as a regularly matriculated student) in the graduate program at Cal State East Bay;
- no fewer than three (3) nor more than six (6) quarter units may have been assigned to a University Thesis nor more than five (5) to a Department Thesis or Project, nor fewer than four (4) in the Graduate Synthesis course;
- no more than thirteen (13) quarter units of approved courses may be transferred from another institution, taken through approved extension courses (including Open University), or taken as an "Unclassified Post-Baccalaureate" student;
- at least twenty-two and one-half (22.5) quarter units must have been in courses in the 6000 series or equivalent graduate level;
- satisfied the University Writing Skills Requirement; (For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661);
- earned at least a 3.0 GPA in all post-baccalaureate work and in all graduate work at Cal State East Bay and in all units satisfying the requirements of the degree program;

- completed a University Thesis acceptable to the university, or a Department Thesis or Project acceptable to the department faculty, or completed the Graduate Synthesis course which includes passing a Comprehensive Examination;
- met, within five (5) years of admission to the program, the specific requirements of that program.

Graduation

A student must apply to graduate and request a degree check during the first two (2) weeks of the quarter prior to the quarter in which completion of the program is expected. Students must apply online and pay the required fee.

Core Foundation Courses (4-12 units)

The following foundation course is required for all options in the M.S. in Education program:

- TED 6020 - Research in Education *Units: 4*

An additional 8 units of core foundation courses are required for students pursuing the following options: Curriculum, Early Childhood Education, or Educational Technology Leadership.

- TED 6300 - Foundations of Curriculum Development *Units: 4*
- TED 6700 - Advanced Educational Psychology *Units: 4*

Capstone Requirements (4 units)

Pending Department and Professor approval, all M.S. in Education students must complete one (1) capstone course for a minimum of 4 units from the following:

- TED 6899 - Project *Units: 2-5*
- TED 6901 - Graduate Synthesis *Units: 4*
- TED 6909 - Departmental Thesis *Units: 2-5*
- TED 6910 - University Thesis *Units: 1-6 Note: this capstone not for Reading Instruction Option students.*

Option Requirements (16-29 units)

Students must choose one (1) of the following options to complete the M.S. in Education degree:

- Education, Curriculum Option, M.S.
- Education, Early Childhood Education Option, M.S.
- Education, Educational Technology Leadership Option, M.S.
- Education, Reading Instruction Option, M.S.; and Reading Certificate (Added Authorization)

The M.S. in Education, Online Teaching and Learning Option is an *online-only* program offered through the Division of Continuing and International Education (DCIE), University Extension and has different requirements for completion:

- Education, Online Teaching and Learning Option, M.S.

Early Childhood Education Option

The Early Childhood Education Option is designed to provide the working professional special competencies for assuming leadership roles in curriculum, staff development, advocacy, and educating families.

Student Learning Outcomes

Students graduating with the M.S. in Education, Option in Early Childhood Education from California State University, East Bay will:

- develop an in-depth knowledge base of effective preschool models of curriculum, pedagogy and working with families;
- complete a professional practicum in an Early Childhood setting (including the delivery of professional development, advocacy and mentoring);
- utilize a variety of bibliographic tools to write a comprehensive review of the literature for a topic of professional interest;
- complete an action research project investigating a topic as it relates to the field of Early Childhood Education.

Prerequisites

Students must demonstrate an appropriate background when applying for this option. This can be met by successful completion of an undergraduate degree in Human Development, Psychology, or other relevant degree to the field of Early Childhood. Students possessing a Multiple Subject Credential or degree in Elementary Education are encouraged to apply as well. Students who have a Bachelor's degree, but not in the Social Sciences, and have successfully completed at least 12 units in Early Childhood and/or have worked successfully in the field for at least 5 years are also encouraged to apply.

Required Courses (25 units)

- TED 6070 - Graduate Studies in Early Childhood Education: Language and Literacy Development *Units: 4*
- TED 6071 - Graduate Studies in Early Childhood Education: Integrated Language Arts and Social Studies *Units: 4*
- TED 6072 - Graduate Studies in Early Childhood Education: Integrated Mathematics and Science *Units: 4*
- TED 6073 - Graduate Studies in Early Childhood Education: Integrated Arts *Units: 2*
- TED 6074 - Graduate Studies in Early Childhood Education: Integrated Arts *Units: 4*
- TED 6075 - Early Childhood Education: Professional Leadership Seminar *Units: 4*
- TED 6076 - Early Childhood Education: Professional Practicum *Units: 4*

Electives (4 units)

- TED 6015 - Using Research to Improve Learning *Units: 4*
- TED 6124 - Advanced Study in Multicultural Education *Units: 4*
- TED 6900 - Independent Study *Units: 1-4*
- TED 6999 - Issues in Teacher Education *Units: 1-4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Education, Educational Technology Leadership Option, M.S.

Department & Faculty Information

Educational Technology Leadership Option

The Educational Technology Leadership Option provides the participants with additional technological knowledge and skills to create effective school district technology plans, to develop training programs for classroom teachers in the use of technology, to promote organizational change through technology, to manage technology resources and personnel in a school setting, and to apply their technical skills and knowledge to identify and utilize technological resources appropriately for the needs of the schools, school districts, and similar educational organizations. All the option's required courses address these technology needs of schools.

Student Learning Outcomes

Students graduating with an M.S. in Education, Option in Educational Technology Leadership from Cal State East Bay will be able to:

- Identify, describe, and evaluate a variety of factors that influence integration of technology into K-12 curricula in California public schools;
- Design and develop a variety of technology-based projects and utilize the projects in their courses to write a comprehensive review of elearning topics that relate to education as well as the industry;
- Propose and complete a research project investigating a topic of professional interest as it relates to education and technology; and
- Develop an in-depth understanding of current issues in technology and education in one of the following related to technology topics: elearning, planning and change; Web development; mathematics, science, language arts, and social studies, or learning theories and design of e-learning environments.

Prerequisites

Students must demonstrate knowledge and application of various programming languages, or must have experience with Web-based instruction. Basic knowledge of digital technologies and HTML is required. Advanced proficiency in one platform (e.g. Macintosh, Windows, UNIX) is required. Students will be accepted into the program based on an interview by a committee where they demonstrate their technology competence. Students are also required to maintain their level of competency in technology as long as they are graduate students in the program.

Required Courses (26-29 units)

- EDUI 6110 - Web as an Interactive Educational Tool *Units: 4*
- EDUI 6200 - Learning Theories and the Design of E-learning Environments
Units: 4
- EDUI 6280 - Mathematics, Science and Technology in Education *Units: 4*
- EDUI 6350 - Educational Technology in the Teaching of Language and Social Studies *Units: 4*
- EDUI 6500 - Research in Educational Technology *Units: 4*
- EDUI 6600 - Educational Interface Design *Units: 4*
- EDUI 6899 - Project *Units: 2-5*

Electives (16-19 units minimum)

- EDUI 6002 - Animation for the Web *Units: 2*
- EDUI 6005 - Digital Graphics *Units: 4*
- EDUI 6098 - Designing Effective Multimedia Instruction *Units: 4*
- EDUI 6120 - Distance Learning Technologies and Applications *Units: 4*
- EDUI 6150 - Current Issues in Educational Technology *Units: 4*
- EDUI 6210 - Principles of Instructional Design *Units: 4*
- EDUI 6300 - Culture and the Evolution of Educational Technology *Units: 4*
- EDUI 6315 - Current Technologies in Education *Units: 2*
- EDUI 6400 - Educational Technology Planning for Innovation and Change *Units: 4*
- EDUI 6420 - Technology Internship *Units: 4*
- EDLD 6410 - Supervision and Staff Development *Units: 4*
- MM 6101 - Multimedia Seminar *Units: 4*
- MM 6102 - Application of Learning Theories to Multimedia Design *Units: 4*
- MM 6110 - Tech II: Multimedia Network and Hardware Development *Units: 4*
- MM 6120 - Tech III: Multimedia Software Development *Units: 4*
- MM 6805 - Forum *Units: 1*
- PSYC 4200 - Conditioning and Learning *Units: 4*
- PSYC 4210 - Theories of Learning *Units: 4*
- PSYC 4220 - Cognitive Processes *Units: 4*
- PSYC 4320 - Physiological Psychology *Units: 4*
- PSYC 4345 - Sensation and Perception *Units: 4*

- PUAD 6765 - Organizational Diagnosis and Assessment *Units: 4*
- PUAD 6811 - Human Organizations and Social Realities *Units: 4*
- PUAD 6812 - Changing Human Organizations *Units: 4*
- STAT 3900 - Data Analysis Using Statistical Packages *Units: 4*

Note:

Since students come to the program with varying technology backgrounds and interests, they may choose graduate-level courses from other departments with advisor approval.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Education, Online Teaching and Learning Option, M.S.

Education, Online Teaching and Learning Option (M.S.) 45 units

General Information

The first fully online program at Cal State East Bay and one of the most comprehensive online teaching and learning training programs offered in the world, the MS in Online Teaching and Learning (MS-OTL) program has been empowering educators, instructors, trainers, and support staff to effectively design and implement online courses since 1999.

Our students develop their own online course or program, using best practices in online teaching and learning. Your course will be designed around your subject area of expertise, the needs of your learners, and will take your institutional setting into account.

Our program is not cohort-based, with all students taking the same courses each quarter. Rather, you can complete the degree at your own pace and take one or two courses per quarter and skip a quarter or two along the way. However, each course has weekly assignments and due dates so they are not self-paced.

Prerequisites

To be admitted to the Online Teaching and Learning Option in the M.S. in Education, students meet normal Cal State East Bay requirements for admission to a graduate program in Education. Students from

schools where English is not the primary language of instruction are required to achieve a TOEFL score of at least 213 (550 on the former grading scale) for admission to the program.

Curricular Requirements

Students work with designated program advisors. Communication with advisors is by e-mail, telephone, and video conference as necessary. Student orientation to the program is by means of the program website.

Students complete 45 units of approved coursework. All work applied toward the 45 units must be at an average grade of "B" (3.0) or higher, and no graduate-level required course may be at a grade below "B." A student may retake a course one time only, if the overall grade point average is 3.0 or higher. Students who are qualified for admission to the program will be placed in the "Conditionally Classified Graduate" category. Upon completion of the University Writing Skills Requirement (which is satisfied with a "B" or better in OTL 6706), they will be placed in the "Classified Graduate" category. If students do not pass OTL 6706 with a "B" or better, they must take the Writing Skills Test (WST) to satisfy the University Writing Skills Requirement. If students do not pass the WST, they must take a course or courses (depending on the score they received on the WST), to improve their skills and satisfy the University Writing Skills Requirement. Students complete OTL 6899 Project (4.5) as the capstone experience.

Required Courses (36 units)

Students must complete OTL 6701, OTL 6702, OTL 6703, and OTL 6704 before they may take any other courses.

- OTL 6701 - Introduction to Online Teaching and Learning *Units: 4.5*
- OTL 6702 - Teaching Models for Online Instruction *Units: 4.5*
- OTL 6703 - Technology Tools for Online Instruction *Units: 4.5*
- OTL 6704 - Designing Curriculum for Online Instruction *Units: 4.5*
- OTL 6705 - Educational Planning and Development for Online Programs *Units: 4.5*
- OTL 6706 - Research in Online Teaching and Learning *Units: 4.5*
- OTL 6707 - History and Culture of Online Learning Communities *Units: 4.5*
- OTL 6899 - Project *Units: 2-5*

Electives (9 units)

Choose one from each area:

Theoretical

- OTL 6772 - Content Development for Online Learning *Units: 4.5*
- OTL 6773 - Supervising and Evaluating Online Teaching *Units: 4.5*
- OTL 6774 - Current Issues in Online Learning *Units: 4.5*

Methodological

- OTL 6780 - Building the Online Environment *Units: 4.5*

- OTL 6781 - Creating Digital Media for Online Instruction *Units: 4.5*
- OTL 6782 - Designing and Implementing User Interfaces for Online Instruction
Units: 4.5
- OTL 6783 - Providing Interactivity in the Online Environment *Units: 4.5*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Education, Reading Instruction Option, M.S.; and Reading Certificate (Added Authorization)

Department & Faculty Information

Education (M.S.) 45 units

The Department of Teacher Education offers four options for the Master of Science in Education degree:

- Early Childhood Education,
- Curriculum,
- Educational Technology Leadership, and
- Reading Instruction & Reading Certificate (Added Authorization).

Admission

Upon admission to the university, a student with a baccalaureate degree usually is in "Unclassified Post-Baccalaureate" standing. An "Unclassified Post-Baccalaureate" student may enroll in those courses for which the prerequisites have been met. The department will not count courses taken to remove deficiencies toward degree requirements. No more than 13 units taken in "Unclassified Post-Baccalaureate" status can be applied toward a master's degree. This includes approved credit-bearing extension courses, transfer courses, and residence courses taken before admission to the master's degree program. Lower division, non-credit Extension, and Credit/No Credit (Pass/Fail) courses are not applicable to the degree except courses offered only for Credit/No Credit (Pass/Fail). Filing for a substitution for this last item is up to the student. Seven units of coursework from a basic credential program (Multiple or Single Subject) may be applied toward a master's degree.

A student with minor deficiencies in the requirements below may be admitted to a program as a "Conditionally Classified Graduate" student.

To be awarded "Classified Graduate" standing, a student must:

- have a GPA of 3.0 or better in all upper division work in the major and in all post-baccalaureate work;
- hold a valid teaching credential and/or show evidence of successful classroom teaching experience as determined by the department. (May be waived for a student in the Option in Early Childhood Education.);
- have met the University Writing Skills Requirement. (For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661)

Advancement to Candidacy

To be Advanced to Candidacy for the degree, a student must:

- have met the University Writing Skills Requirement;
- (For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661)
- be a "Classified Graduate" student in good standing;
- have completed at least 35 quarter units considered by the Department to be applicable toward the degree requirements with a GPA of 3.0 or better;
- have an approved program of study for the degree (on a Major Check Form) signed by the advisor;
- have completed or be currently enrolled in TED 6020, Research in Education;
- have been approved for Advancement to Candidacy by the department on recommendation of faculty teaching in the student's area of study-
- This is initiated by filing the form, Petition to Establish Thesis/Project Committee, with a thesis or project abstract attached, or by obtaining permission to register for the Graduate Synthesis course.

GPA Requirement

A student must maintain a GPA of 3.0 or higher in all courses taken in the approved program signed by the advisor, whether the courses are taken at Cal State East Bay or elsewhere. A student whose GPA falls below 3.0 will be placed on probationary status, will be subject to disqualification from the program, and may be recommended for dismissal from the university. (The department also requires that the use of the "CR/NC" grade option in any course applied to a master's and/or certificate program must be approved in advance by the Graduate Coordinator.)

Degree Requirements (45 units)

To receive the M.S. degree in Education, a student must have:

- been Advanced to Candidacy;
- completed 45-53 quarter units of approved graduate work, subject to the following conditions:
- all units must have been earned within the past five (5) years immediately preceding completion of the requirements for the degree;
- no fewer than thirty-two (32) quarter units may have been completed in residence (i.e., after admission to the program, as a regularly matriculated student) in the graduate program at Cal State East Bay;
- no fewer than three (3) nor more than six (6) quarter units may have been assigned to a University Thesis nor more than five (5) to a Department Thesis or Project, nor fewer than four (4) in the Graduate Synthesis course;

- no more than thirteen (13) quarter units of approved courses may be transferred from another institution, taken through approved extension courses (including Open University), or taken as an "Unclassified Post-Baccalaureate" student;
- at least twenty-two and one-half (22.5) quarter units must have been in courses in the 6000 series or equivalent graduate level;
- satisfied the University Writing Skills Requirement; (For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661);
- earned at least a 3.0 GPA in all post-baccalaureate work and in all graduate work at Cal State East Bay and in all units satisfying the requirements of the degree program;
- completed a University Thesis acceptable to the university, or a Department Thesis or Project acceptable to the department faculty, or completed the Graduate Synthesis course which includes passing a Comprehensive Examination;
- met, within five (5) years of admission to the program, the specific requirements of that program.

Graduation

A student must apply to graduate and request a degree check during the first two (2) weeks of the quarter prior to the quarter in which completion of the program is expected. Students must apply online and pay the required fee.

Core Foundation Courses (4-12 units)

The following foundation course is required for all options in the M.S. in Education program:

- TED 6020 - Research in Education *Units: 4*

An additional 8 units of core foundation courses are required for students pursuing the following options: Curriculum, Early Childhood Education, or Educational Technology Leadership.

- TED 6300 - Foundations of Curriculum Development *Units: 4*
- TED 6700 - Advanced Educational Psychology *Units: 4*

Capstone Requirements (4 units)

Pending Department and Professor approval, all M.S. in Education students must complete one (1) capstone course for a minimum of 4 units from the following:

- TED 6899 - Project *Units: 2-5*
- TED 6901 - Graduate Synthesis *Units: 4*
- TED 6909 - Departmental Thesis *Units: 2-5*
- TED 6910 - University Thesis *Units: 1-6 Note: this capstone not for Reading Instruction Option students.*

Option Requirements (16-29 units)

Students must choose one (1) of the following options to complete the M.S. in Education degree:

- Education, Curriculum Option, M.S.

- Education, Early Childhood Education Option, M.S.
- Education, Educational Technology Leadership Option, M.S.
- Education, Reading Instruction Option, M.S.; and Reading Certificate (Added Authorization)

The M.S. in Education, Online Teaching and Learning Option is an *online-only* program offered through the Division of Continuing and International Education (DCIE), University Extension and has different requirements for completion:

- Education, Online Teaching and Learning Option, M.S.

Reading Instruction Option (29 units)

The Department of Teacher Education at California State University, East Bay offers two levels for graduate study in the area of reading and language arts:

- The Reading Certificate (Added Authorization) is granted by the California Commission on Teacher Credentialing (CCTC) upon recommendation by Cal State East Bay. It authorizes service as a reading specialist at a school site. This program is 20 quarter units.
- **The Master of Science Degree, with an Option in Reading Instruction** is granted by Cal State East Bay. Candidates who have earned the Reading Certificate (Added Authorization), or previously earned the Reading and Language Arts Specialist Credential, are eligible to continue their graduate studies and earn the M.S. degree. This program is 45 quarter units:
 - 20 units for the Reading Certificate (Added Authorization), and 9-25 additional (approved) elective units.

Students must demonstrate potential to become a leader in reading and language arts curriculum and instruction.

Student Learning Outcomes

Students graduating with an M.S. in Education, Option in Reading Instruction from Cal State East Bay will be able to:

- Demonstrate a thorough understanding of theory and research on an effective culture of literacy for diverse pre-kindergarten through high school students, their families, and communities;
- Demonstrate knowledge of research-based instructional practices in each component of literacy and the ability to assess, instruct, and provide intervention for each component of literacy instruction, including phonemic awareness, phonics, fluency, oral language development, reading and listening comprehension, and vocabulary development, and writing;
- Plan and implement successfully a balanced literacy environment, including the selection and use instructional materials, technology, routines, and strategies that are appropriately aligned with students' assessed language and literacy needs; and
- Complete an action research project in the field of literacy, including a review of the research literature, planning and implementing an instructional unit, and an analysis of student learning and research results.

Reading Certificate (Added Authorization)

All *Reading Certificate (Added Authorization)* units are required for Option in Reading Instruction:

- TED 6220 - Focus on Diversity *Units: 4*

- TED 6230 - Reading/Language Arts: Literacy Research and Methods I *Units: 4*
- TED 6231 - Reading/Language Arts: Literacy Assessment and Intervention I *Units: 4*
- TED 6232 - Reading/Language Arts: Literacy Assessment and Intervention II *Units: 4*
- TED 6250 - Reading Research and Evaluation *Units: 4*
- TED 6253 - Reading/Language Arts: Literacy Research and Methods II *Units: 4*

Reading Instruction Electives

The remaining 25 units of electives for the MS degree (Reading Instruction Option) must be approved by the advisor. Units may be from an accredited credential program, provided the units are no older than 7 years when the student graduates.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Minor

Early Childhood Education Minor

Department & Faculty Information

Minor Requirements (24 units)

The minor in Early Childhood Education consists of 24 units.

Required Courses:

- TED 4070 - Early Childhood Education: Language and Literacy Development *Units: 4*
- TED 4071 - Early Childhood Education: Integrated Language Arts and Social Studies *Units: 4*
- TED 4072 - Early Childhood Education: Integrated Math and Science *Units: 4*
- TED 4073 - Early Childhood Education: Integrated Arts *Units: 2*
- TED 4074 - Early Childhood Education: Inclusive Practices *Units: 4*

- TED 4075 - Early Childhood Education: Professional Seminar and Practicum
Units: 6

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Certificate (Graduate) Program

Educational Technology Leadership Certificate

Department & Faculty Information

Certificate Requirements (16 Units)

This program is designed for educators and e-learning developers who serve as technology leaders in educational settings, as well as in industry. The program combines instructional design theories with a knowledge of emerging technologies and trains graduate students to assume leadership roles in the design and development of effective e-learning environments. The program advocates lifelong learning that allows students to nurture their personal and professional growth. The arenas in which Educational Technology Leadership graduates will be active include school districts, county offices of education, community colleges, the high tech industry as an e-learning developer, and the field of instructional design.

Prerequisites

Students must demonstrate knowledge and application of various programming languages, or must have experience with Web-based instruction. Basic knowledge of digital technologies and HTML is required. Advanced proficiency in one platform (e.g., Macintosh, Windows, UNIX) is required. Students will be accepted into the program based on an interview by a committee where they demonstrate their technology competence. Students are also required to maintain their level of competency in technology as long as they are graduate students in the program.

Core Courses (12 units)

- EDUI 6200 - Learning Theories and the Design of E-learning Environments
Units: 4

- EDUI 6350 - Educational Technology in the Teaching of Language and Social Studies *Units: 4*
- EDUI 6280 - Mathematics, Science and Technology in Education *Units: 4*

Electives (4 units minimum)

Select from the following:

- EDUI 6002 - Animation for the Web *Units: 2*
- EDUI 6005 - Digital Graphics *Units: 4*
- EDUI 6120 - Distance Learning Technologies and Applications *Units: 4*
- EDUI 6150 - Current Issues in Educational Technology *Units: 4*
- EDUI 6210 - Principles of Instructional Design *Units: 4*
- EDUI 6300 - Culture and the Evolution of Educational Technology *Units: 4*
- EDUI 6315 - Current Technologies in Education *Units: 2*
- EDUI 6400 - Educational Technology Planning for Innovation and Change *Units: 4*
- EDLD 6410 - Supervision and Staff Development *Units: 4*
- MM 6101 - Multimedia Seminar *Units: 4*
- MM 6102 - Application of Learning Theories to Multimedia Design *Units: 4*
- MM 6805 - Forum *Units: 1*
- PSYC 4200 - Conditioning and Learning *Units: 4*
- PSYC 4210 - Theories of Learning *Units: 4*
- PSYC 4220 - Cognitive Processes *Units: 4*
- PSYC 4320 - Physiological Psychology *Units: 4*
- PSYC 4345 - Sensation and Perception *Units: 4*
- PUAD 6765 - Organizational Diagnosis and Assessment *Units: 4*
- PUAD 6811 - Human Organizations and Social Realities *Units: 4*
- PUAD 6812 - Changing Human Organizations *Units: 4*
- STAT 3900 - Data Analysis Using Statistical Packages *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Department of Theatre and Dance

Department Office located in the 2nd Floor of the Robinson Hall building, Room 220

Open hours 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept. Phone: 510.885.3118

Faculty

Professor Emeritus

Thomas C. Hird (Chair), M.F.A. University of California, Los Angeles

Professors

Rhoda Helfman Kaufman, Ph.D. University of California, Berkeley

Marc Jacobs, M.F.A. California State University, Long Beach

Darryl V. Jones, M.F.A. The Boston University School of Theatre Arts

Associate Professors

Ann Fajilan, M.F.A. University of California, Davis

Nina O. Haft, M.F.A. University of Wisconsin

Eric Kupers, M.F.A. University of California, Davis

Mission Statement

Theatre and Dance, as performing arts, provide a spark that transforms a person into a lifelong student. Across the campus we offer opportunities for participation both in production and in critical examination that help students to discover, accept, and express themselves as active, enlightened persons, and to know and appreciate the work and values of others. To succeed in their performances, students master world history as well as the theories of art and esthetics by use of the everyday practices of the liberal arts, including research, writing, figuring, reasoning, and experimentation. They learn practical, usable skills. Students experience the problems of making choices while on stage and off. They learn to recognize the connection between art and life, as well as to discover their own capacities to make choices as citizens, as creators of art, and as directors of their lives.

Anyone Can Get Involved Open to all students!

Bachelor of Arts

Theatre Arts, Acting Option, B.A.

Department & Faculty Information

Theatre Arts (B.A.) 180 units

Program Description

The Department of Theatre and Dance provides comprehensive pre-professional training in the areas of acting, directing, dance, design, theatre technology, and musical theatre. The primary goal of the program is to develop artists whose performance skills and creativity are supported by a firm background in history, literature, and aesthetics. In an environment designed to encourage creativity and self-expression, each student has opportunities to participate in various specializations within the major-acting, costuming, dance, directing, scenery, lighting, sound, creative vision, or management. Students perform regularly in a variety of theatre and dance productions.

Theatre Arts graduates acquire a range of skills. This enables them to pursue different professional options. Many have entered advanced studies in nationally recognized universities and conservatories. Some have chosen careers in teaching, while others have gone directly into theatre or dance performance. Alumni perform on professional stages around the world, including Broadway and Hollywood. Some have been nominated for Tonys, Emmys, and Oscars; and, one designer won an Emmy and Art Directors Guild award. Employers in other professions desire Theatre Arts graduates for their team skills, their imaginative approach to problems, and their ability to communicate creatively.

Student Learning Outcomes

Students graduating with a B.A. in Theatre Arts from Cal State East Bay will be able to:

- communicate in writing, orally, non-verbally, and visually in their area of emphasis.
- conduct background research, evaluate scripts, and analyze performance for use in scholarly and performance applications.
- employ historical, contemporary, and cultural performance techniques, as well as production technology appropriate to their area of emphasis.
- reflect on performance techniques and concepts of other performers and apply high standards of reflection to their own production work.
- solve problems of production by creating roles, dancing, designing, managing, building, directing, or choreographing performances that address issues of life in striking and remarkable ways.

Career Opportunities

- Actor/Actress
- Broadcast Technician
- Business Agent
- Choreographer
- College Student Services
- Comedian
- Corporate Officer
- Costume Designer

- Costume Technician
- Dancer
- Director
- Drama or Dance Teacher/Professor
- Dramaturg
- Lighting Technician
- Make-Up Artist/Specialist
- Non-profit Manager
- Performing Arts Fundraiser
- Playwright
- Producer
- Recreation Supervisor
- Sales Manager
- Set Decorator
- Set Designer
- Sound Technician
- Stage Manager
- Theatre Critic
- Theatre Technician
- Theatre Manager

Features

The Department of Theatre and Dance produces approximately 5-8 plays and dance concerts during the year. The selection of plays exposes students to design, acting, dance, singing, directing, stage management, and technical theatre suitable to a wide variety of styles, periods, and genres from Shakespeare to American Realism and from Greek Tragedy to Modern Drama.

The department has several ensemble groups, including Musical Theatre, Dance, Acting, Inclusive Interdisciplinary, and Design/Technology, that add to a varied and challenging performance schedule. Since 1990, sixteen department productions have toured to the Edinburgh Festival Fringe in Scotland and three other countries as part of the summer program.

The Theatre and Dance Department is fortunate to have excellent facilities including the 460 seat University Theatre, scene shop, costume shop, a sixteen-station design/drafting studio with a separate digital lab, two studio classrooms, green room, make-up room, dressing rooms with lockers and showers, and a spacious Dance Studio.

Subject Area Course Lists (SACL)

Four-year CSUEB students should take any THEA or DANC course in a First Year General Education Cluster. For a list of all SACL designated courses use the Course Description link below or see your department advisor.

Transfer students may petition the Chair to substitute a course with the following types of content:

- a theatre literature and history course with required reading of at least six plays,
- a performance appreciation course that required attendance and a review of at least four shows,

- a script analysis course, or a creative methods course (specifically any course that articulates with DANC 1200).

Transfer students may also meet the requirement with one of the courses approved for four-year students. Substitutes require advanced approval of the Chair.

Major Requirements (B.A.) 75-109 units

The B.A. degree requires a total of 180 units.

- The core major consists of 56 units;
- the electives for non- Option consists of 19 units;
- the Acting Option consists of 39-40 units.
- the Dance Option consists of 34-49 units;
- the Directing and Creative Vision Option consists of 41 units.
- the Musical Theatre Option consists of 53 units;
- the Technology and Design Option consists of 39-41 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult with your advisor for clarification and interpretation of major requirements.

Common Core Courses (56 units)

Lower Division Beginning Elective Units

Production and Performance

Complete three (3) show assignments for 6 units in the first two years from the following:

- THEA 1490 - Theatre Production Activity Courses: Costume or Backstage Activity A *Units: 2*
- THEA 1491 - Theatre Production Activity Courses: Musical Theatre Production A *Units: 4*
- THEA 1492 - Theatre Production Activity Courses: Stage Crew Activity A *Units: 2*
- THEA 1493 - Theatre Production Activity Courses: Production Staff Activity A *Units: 3*
- THEA 1495 - Theatre Production Activity Courses: Studio Production Activity A *Units: 4*
- THEA 1497 - Theatre Production Activity Courses: Special Workshop or Production A *Units: 1-12*
- THEA 1499 - Theatre Production Activity Courses: Production Practicum A *Units: 4*
- THEA 2490 - Theatre Production Activity Courses: Costume or Backstage Activity B *Units: 2*

- THEA 2491 - Theatre Production Activity Courses: Musical Theatre Production B *Units: 4*
- THEA 2492 - Theatre Production Activity Courses: Stage Crew Activity B *Units: 2*
- THEA 2493 - Theatre Production Activity Courses: Production Staff Activity B *Units: 3*
- THEA 2495 - Theatre Production Activity Courses: Studio Production Activity B *Units: 4*
- THEA 2497 - Theatre Production Activity Courses: Special Workshop or Production B *Units: 1-12*
- THEA 2499 - Theatre Production Activity Courses: Production Practicum B *Units: 4*

Choose an Area of Emphasis

Complete 10 units from **ONE** of the following areas of emphasis: Dance, Acting, or Technology and Design.

Unless specified, courses should be numbered below 2999, and listed in the Course Descriptions of this catalog under the filter TYPE: **Subject Area Course List**

Note: Students pursuing the following options

- *Acting Option, Musical Theatre Option, and Directing & Creative Vision Option students are required to complete the 10 units of Acting Emphasis;*
- *Dance Option students are required to complete the 10 units of Dancing Emphasis;*
- *Technology & Design Option students are required to complete the 10 units of Technology & Design Emphasis.*

Acting Emphasis

At least 3 units from:

- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*

Choose one course (2 units) from Musical Theatre Dance

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Complete 3 units from the following courses

- THEA 2031 - Stage Voice A *Units: 1*

- THEA 2032 - Stage Voice B *Units: 1*

And the following 3 courses

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*

Dance Emphasis

Choose 5 units of beginning or intermediate dance technique courses in either: Ballet, Hip Hop, Modern, Musical Theatre, or Jazz.

- DANC 1131 - Beginning Technique Classes: Beginning Hip Hop Dance I *Units: 1*
- DANC 1132 - Beginning Technique Classes: Beginning Hip Hop Dance II *Units: 1*
- DANC 1133 - Beginning Technique Classes: Beginning Hip Hop Dance III *Units: 1*
- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*
- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*
- DANC 1171 - Beginning Technique Classes: Beginning Jazz Dance I *Units: 1*
- DANC 1172 - Beginning Technique Classes: Beginning Jazz Dance II *Units: 1*
- DANC 1173 - Beginning Technique Classes: Beginning Jazz Dance III *Units: 1*
- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*
- DANC 2120 - Musical Theatre Dance A *Units: 2*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*
- DANC 2131 - Intermediate Technique Classes: Intermediate Hip Hop Dance I *Units: 1*
- DANC 2132 - Intermediate Technique Classes: Intermediate Hip Hop Dance II *Units: 1*
- DANC 2141 - Intermediate Technique Classes: Intermediate Modern Dance I *Units: 1*
- DANC 2142 - Intermediate Technique Classes: Intermediate Modern Dance II *Units: 1*
- DANC 2171 - Intermediate Technique Classes: Intermediate Jazz Dance I *Units: 1*
- DANC 2172 - Intermediate Technique Classes: Intermediate Jazz Dance II *Units: 1*

- DANC 2173 - Intermediate Technique Classes: Intermediate Jazz Dance III
Units: 1
- DANC 2191 - Intermediate Technique Classes: Intermediate Ballet Dance I
Units: 1
- DANC 2192 - Intermediate Technique Classes: Intermediate Ballet Dance II
Units: 1
- DANC 2193 - Intermediate Technique Classes: Intermediate Ballet Dance III
Units: 1

One course (2 units) from:

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Three technology and design courses (3 units):

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus
Units: 1
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*

Technology & Design Emphasis

Two (2) units from:

- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*
- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*
- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*

Five (5) courses from technology & design:

- THEA 2421 - Fundamental Backstage Technology: Wood Scenery: Walls and Levels *Units: 1*
- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus
Units: 1
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*
- THEA 2425 - Fundamental Backstage Technology: Stage Effects *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*
- THEA 2429 - Fundamental Backstage Technology: Practical Drafting and Model Building *Units: 1*
- THEA 2430 - Fundamental Backstage Technology: Practical Make-up *Units: 1*

And the following 3 units:

- THEA 1020 - Discover Acting *Units: 3*

Upper Division Required Core Courses

Complete the following 30 units or required courses:

- DANC 3251 - Movement Analysis *Units: 4*
- DANC 3252 - Dance Through the Ages *Units: 4*
- THEA 3253 - Theatre Through the Ages *Units: 4*
- THEA 3254 - Scenery, Lights, and Sound Concepts *Units: 4*
- THEA 3255 - Costumes and Makeup Concepts *Units: 4*
- THEA 3256 - Directing: Text to Stage *Units: 3*
- THEA 3257 - Design for Stage *Units: 3*
- Plus one (1) additional lower division THEA or DANC course (see the filter TYPE: Subject Area Course List under Course Descriptions)

Core Culmination and Assessment Courses

Each student must complete the following 10 units. A Senior Culmination Project is to include either a performance project in the Senior Festival, a written thesis, or a substantial internship. Students may substitute internship credit or thesis-related Independent Study credit for their Senior Festival courses.

- THEA 4151 - Senior Festival Preproduction *Units: 3*
- THEA 4152 - Senior Festival Performance *Units: 3*
- THEA 4155 - Career Management Issues in Theatre Arts *Units: 4*

Option Requirements

To complete the Theatre B.A. degree additional units are required from one of the following:

- Theatre Arts, B.A. (with Advanced Electives) non-option
- Theatre Arts, Acting Option, B.A.
- Theatre Arts, Dance Option, B.A.
- Theatre Arts, Directing and Creative Vision Option, B.A.
- Theatre Arts, Musical Theatre Option, B.A.
- Theatre Arts, Technology and Design Option, B.A.

Acting Option (39-40 units)

Total major units with this option: 95-96.

Note: Beginning in Year Two, Acting Option students must audition for and accept roles in at least two department productions per year. These six productions will be applied to the major, three to the Beginning Electives and three to Advanced Electives requirements.

Required Courses

Required 14 units:

- THEA 3056 - Intermediate Acting II *Units: 2*
- THEA 3057 - Intermediate Acting III *Units: 2*
- THEA 3064 - Audition Techniques and Talent Analysis I *Units: 1*
- THEA 3065 - Audition Techniques and Talent Analysis II *Units: 1*
- THEA 2035 - Fundamentals of Acting *Units: 3*
- THEA 2037 - Acting 20th Century Drama and Diversity *Units: 3*
- THEA 2055 - Intermediate Acting I *Units: 2*

Electives 6-7 units:

Complete two of the following courses:

- THEA 3052 - Acting for the Camera *Units: 4*
- THEA 4032 - Period Acting Style: Restoration and Moliere *Units: 3*

Advanced Electives

Advanced Technique Elective (6 units)

- *THEA 4038 Acting Studio I Units: 3*
- *THEA 4039 Acting Studio II Units: 3*

Production and Performance (9 units)

At least three Production and Performance courses, numbered 3000 and above, covering at least three show assignments during the final two years.

Theatre History and Literature Elective (4 units)

One additional course in Theatre History and Literature (or) Dance History.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Theatre Arts, B.A.

Department & Faculty Information

Theatre Arts (B.A.) 180 units

Program Description

The Department of Theatre and Dance provides comprehensive pre-professional training in the areas of acting, directing, dance, design, theatre technology, and musical theatre. The primary goal of the program is to develop artists whose performance skills and creativity are supported by a firm background in history, literature, and aesthetics. In an environment designed to encourage creativity and self-expression, each student has opportunities to participate in various specializations within the major-acting, costuming, dance, directing, scenery, lighting, sound, creative vision, or management. Students perform regularly in a variety of theatre and dance productions.

Theatre Arts graduates acquire a range of skills. This enables them to pursue different professional options. Many have entered advanced studies in nationally recognized universities and conservatories. Some have chosen careers in teaching, while others have gone directly into theatre or dance performance. Alumni perform on professional stages around the world, including Broadway and Hollywood. Some have been nominated for Tonys, Emmys, and Oscars; and, one designer won an Emmy and Art Directors Guild award. Employers in other professions desire Theatre Arts graduates for their team skills, their imaginative approach to problems, and their ability to communicate creatively.

Student Learning Outcomes

Students graduating with a B.A. in Theatre Arts from Cal State East Bay will be able to:

- communicate in writing, orally, non-verbally, and visually in their area of emphasis.
- conduct background research, evaluate scripts, and analyze performance for use in scholarly and performance applications.
- employ historical, contemporary, and cultural performance techniques, as well as production technology appropriate to their area of emphasis.
- reflect on performance techniques and concepts of other performers and apply high standards of reflection to their own production work.
- solve problems of production by creating roles, dancing, designing, managing, building, directing, or choreographing performances that address issues of life in striking and remarkable ways.

Career Opportunities

- Actor/Actress
- Broadcast Technician
- Business Agent
- Choreographer
- College Student Services
- Comedian
- Corporate Officer
- Costume Designer
- Costume Technician
- Dancer
- Director
- Drama or Dance Teacher/Professor

- Dramaturg
- Lighting Technician
- Make-Up Artist/Specialist
- Non-profit Manager
- Performing Arts Fundraiser
- Playwright
- Producer
- Recreation Supervisor
- Sales Manager
- Set Decorator
- Set Designer
- Sound Technician
- Stage Manager
- Theatre Critic
- Theatre Technician
- Theatre Manager

Features

The Department of Theatre and Dance produces approximately 5-8 plays and dance concerts during the year. The selection of plays exposes students to design, acting, dance, singing, directing, stage management, and technical theatre suitable to a wide variety of styles, periods, and genres from Shakespeare to American Realism and from Greek Tragedy to Modern Drama.

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Subject Area Course Lists (SACL)

Four-year CSUEB students should take any THEA or DANC course in a First Year General Education Cluster. For a list of all SACL designated courses use the Course Description link below or see your department advisor.

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- a script analysis course, or a creative methods course (specifically any course that articulates with DANC 1200).

Transfer students may also meet the requirement with one of the courses approved for four-year students. Substitutes require advanced approval of the Chair.

Major Requirements (B.A.) 75-109 units

The B.A. degree requires a total of 180 units.

- The core major consists of 56 units;
- the electives for non- Option consists of 19 units;
- the Acting Option consists of 39-40 units.
- the Dance Option consists of 34-49 units;
- the Directing and Creative Vision Option consists of 41 units.
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- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult with your advisor for clarification and interpretation of major requirements.

Common Core Courses (56 units)

Lower Division Beginning Elective Units

Production and Performance

Complete three (3) show assignments for 6 units in the first two years from the following:

- THEA 1490 - Theatre Production Activity Courses: Costume or Backstage Activity A *Units: 2*
- THEA 1491 - Theatre Production Activity Courses: Musical Theatre Production A *Units: 4*
- THEA 1492 - Theatre Production Activity Courses: Stage Crew Activity A *Units: 2*
- THEA 1493 - Theatre Production Activity Courses: Production Staff Activity A *Units: 3*
- THEA 1495 - Theatre Production Activity Courses: Studio Production Activity A *Units: 4*
- THEA 1497 - Theatre Production Activity Courses: Special Workshop or Production A *Units: 1-12*
- THEA 1499 - Theatre Production Activity Courses: Production Practicum A *Units: 4*
- THEA 2490 - Theatre Production Activity Courses: Costume or Backstage Activity B *Units: 2*
- THEA 2491 - Theatre Production Activity Courses: Musical Theatre Production B *Units: 4*
- THEA 2492 - Theatre Production Activity Courses: Stage Crew Activity B *Units: 2*
- THEA 2493 - Theatre Production Activity Courses: Production Staff Activity B *Units: 3*

- THEA 2495 - Theatre Production Activity Courses: Studio Production Activity B
Units: 4
- THEA 2497 - Theatre Production Activity Courses: Special Workshop or Production B *Units: 1-12*
- THEA 2499 - Theatre Production Activity Courses: Production Practicum B
Units: 4

Choose an Area of Emphasis

Complete 10 units from **ONE** of the following areas of emphasis: Dance, Acting, or Technology and Design.

Unless specified, courses should be numbered below 2999, and listed in the Course Descriptions of this catalog under the filter TYPE: **Subject Area Course List**

Note: Students pursuing the following options

- *Acting Option, Musical Theatre Option, and Directing & Creative Vision Option students are required to complete the 10 units of Acting Emphasis;*
- *Dance Option students are required to complete the 10 units of Dancing Emphasis;*
- *Technology & Design Option students are required to complete the 10 units of Technology & Design Emphasis.*

Acting Emphasis

At least 3 units from:

- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*

Choose one course (2 units) from Musical Theatre Dance

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Complete 3 units from the following courses

- THEA 2031 - Stage Voice A *Units: 1*
- THEA 2032 - Stage Voice B *Units: 1*

And the following 3 courses

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*

- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus
Units: 1
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*

Dance Emphasis

Choose 5 units of beginning or intermediate dance technique courses in either: Ballet, Hip Hop, Modern, Musical Theatre, or Jazz.

- DANC 1131 - Beginning Technique Classes: Beginning Hip Hop Dance I *Units: 1*
- DANC 1132 - Beginning Technique Classes: Beginning Hip Hop Dance II *Units: 1*
- DANC 1133 - Beginning Technique Classes: Beginning Hip Hop Dance III *Units: 1*
- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*
- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*
- DANC 1171 - Beginning Technique Classes: Beginning Jazz Dance I *Units: 1*
- DANC 1172 - Beginning Technique Classes: Beginning Jazz Dance II *Units: 1*
- DANC 1173 - Beginning Technique Classes: Beginning Jazz Dance III *Units: 1*
- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*
- DANC 2120 - Musical Theatre Dance A *Units: 2*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*
- DANC 2131 - Intermediate Technique Classes: Intermediate Hip Hop Dance I
Units: 1
- DANC 2132 - Intermediate Technique Classes: Intermediate Hip Hop Dance II
Units: 1
- DANC 2141 - Intermediate Technique Classes: Intermediate Modern Dance I
Units: 1
- DANC 2142 - Intermediate Technique Classes: Intermediate Modern Dance II
Units: 1
- DANC 2171 - Intermediate Technique Classes: Intermediate Jazz Dance I *Units: 1*
- DANC 2172 - Intermediate Technique Classes: Intermediate Jazz Dance II
Units: 1
- DANC 2173 - Intermediate Technique Classes: Intermediate Jazz Dance III
Units: 1
- DANC 2191 - Intermediate Technique Classes: Intermediate Ballet Dance I
Units: 1

- DANC 2192 - Intermediate Technique Classes: Intermediate Ballet Dance II
Units: 1
- DANC 2193 - Intermediate Technique Classes: Intermediate Ballet Dance III
Units: 1

One course (2 units) from:

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Three technology and design courses (3 units):

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus
Units: 1
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*

Technology & Design Emphasis

Two (2) units from:

- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*
- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*
- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*

Five (5) courses from technology & design:

- THEA 2421 - Fundamental Backstage Technology: Wood Scenery: Walls and Levels *Units: 1*
- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus
Units: 1
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*
- THEA 2425 - Fundamental Backstage Technology: Stage Effects *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*
- THEA 2429 - Fundamental Backstage Technology: Practical Drafting and Model Building *Units: 1*
- THEA 2430 - Fundamental Backstage Technology: Practical Make-up *Units: 1*

And the following 3 units:

- THEA 1020 - Discover Acting *Units: 3*

Upper Division Required Core Courses

Complete the following 30 units or required courses:

- DANC 3251 - Movement Analysis *Units: 4*
- DANC 3252 - Dance Through the Ages *Units: 4*
- THEA 3253 - Theatre Through the Ages *Units: 4*
- THEA 3254 - Scenery, Lights, and Sound Concepts *Units: 4*
- THEA 3255 - Costumes and Makeup Concepts *Units: 4*
- THEA 3256 - Directing: Text to Stage *Units: 3*
- THEA 3257 - Design for Stage *Units: 3*
- Plus one (1) additional lower division THEA or DANC course (see the filter TYPE: Subject Area Course List under Course Descriptions)

Core Culmination and Assessment Courses

Each student must complete the following 10 units. A Senior Culmination Project is to include either a performance project in the Senior Festival, a written thesis, or a substantial internship. Students may substitute internship credit or thesis-related Independent Study credit for their Senior Festival courses.

- THEA 4151 - Senior Festival Preproduction *Units: 3*
- THEA 4152 - Senior Festival Performance *Units: 3*
- THEA 4155 - Career Management Issues in Theatre Arts *Units: 4*

Option Requirements

To complete the Theatre B.A. degree additional units are required from one of the following:

- Theatre Arts, B.A. (with Advanced Electives) non-option
- Theatre Arts, Acting Option, B.A.
- Theatre Arts, Dance Option, B.A.
- Theatre Arts, Directing and Creative Vision Option, B.A.
- Theatre Arts, Musical Theatre Option, B.A.
- Theatre Arts, Technology and Design Option, B.A.

Advanced Electives (19 units)

Note: the Theatre Arts B.A. major requires a minimum of 19 units in the Advanced Electives category, as outline below. *However, students pursuing any of the options should check their option requirements for department preferred courses, if any, or any additional units that may be required in these areas.*

Theatre History and Literature Elective (4 units)

One additional course in Theatre History and Literature (or) Dance History.

Advanced Technique Elective (6 units)

Two additional courses in advanced technique. Take courses numbered 3000 or above in ONE area of emphasis: Acting, Dance, or Technology and Design.

Production and Performance (9 units)

At least three Production and Performance courses, numbered 3000 and above, covering at least three show assignments during the final two years.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Theatre Arts, Dance Option, B.A.

Department & Faculty Information

Theatre Arts (B.A.) 180 units

Program Description

The Department of Theatre and Dance provides comprehensive pre-professional training in the areas of acting, directing, dance, design, theatre technology, and musical theatre. The primary goal of the program is to develop artists whose performance skills and creativity are supported by a firm background in history, literature, and aesthetics. In an environment designed to encourage creativity and self-expression, each student has opportunities to participate in various specializations within the major-acting, costuming, dance, directing, scenery, lighting, sound, creative vision, or management. Students perform regularly in a variety of theatre and dance productions.

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Student Learning Outcomes

Students graduating with a B.A. in Theatre Arts from Cal State East Bay will be able to:

- communicate in writing, orally, non-verbally, and visually in their area of emphasis.
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- employ historical, contemporary, and cultural performance techniques, as well as production technology appropriate to their area of emphasis.
- reflect on performance techniques and concepts of other performers and apply high standards of reflection to their own production work.
- solve problems of production by creating roles, dancing, designing, managing, building, directing, or choreographing performances that address issues of life in striking and remarkable ways.

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- Business Agent
- Choreographer
- College Student Services
- Comedian
- Corporate Officer
- Costume Designer
- Costume Technician
- Dancer
- Director
- Drama or Dance Teacher/Professor
- Dramaturg
- Lighting Technician
- Make-Up Artist/Specialist
- Non-profit Manager
- Performing Arts Fundraiser
- Playwright
- Producer
- Recreation Supervisor
- Sales Manager
- Set Decorator
- Set Designer
- Sound Technician
- Stage Manager
- Theatre Critic
- Theatre Technician
- Theatre Manager

Features

The Department of Theatre and Dance produces approximately 5-8 plays and dance concerts during the year. The selection of plays exposes students to design, acting, dance, singing, directing, stage management, and technical theatre suitable to a wide variety of styles, periods, and genres from Shakespeare to American Realism and from Greek Tragedy to Modern Drama.

The department has several ensemble groups, including Musical Theatre, Dance, Acting, Inclusive Interdisciplinary, and Design/Technology, that add to a varied and challenging performance schedule. Since 1990, sixteen department productions have toured to the Edinburgh Festival Fringe in Scotland and three other countries as part of the summer program.

The Theatre and Dance Department is fortunate to have excellent facilities including the 460 seat University Theatre, scene shop, costume shop, a sixteen-station design/drafting studio with a separate digital lab, two studio classrooms, green room, make-up room, dressing rooms with lockers and showers, and a spacious Dance Studio.

Subject Area Course Lists (SACL)

Four-year CSUEB students should take any THEA or DANC course in a First Year General Education Cluster. For a list of all SACL designated courses use the Course Description link below or see your department advisor.

Transfer students may petition the Chair to substitute a course with the following types of content:

- a theatre literature and history course with required reading of at least six plays,
- a performance appreciation course that required attendance and a review of at least four shows,
- a script analysis course, or a creative methods course (specifically any course that articulates with DANC 1200).

Transfer students may also meet the requirement with one of the courses approved for four-year students. Substitutes require advanced approval of the Chair.

Major Requirements (B.A.) 75-109 units

The B.A. degree requires a total of 180 units.

- The core major consists of 56 units;
- the electives for non- Option consists of 19 units;
- the Acting Option consists of 39-40 units.
- the Dance Option consists of 34-49 units;
- the Directing and Creative Vision Option consists of 41 units.
- the Musical Theatre Option consists of 53 units;
- the Technology and Design Option consists of 39-41 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult with your advisor for clarification and interpretation of major requirements.

Common Core Courses (56 units)

Lower Division Beginning Elective Units

Production and Performance

Complete three (3) show assignments for 6 units in the first two years from the following:

- THEA 1490 - Theatre Production Activity Courses: Costume or Backstage Activity A *Units: 2*
- THEA 1491 - Theatre Production Activity Courses: Musical Theatre Production A *Units: 4*
- THEA 1492 - Theatre Production Activity Courses: Stage Crew Activity A *Units: 2*
- THEA 1493 - Theatre Production Activity Courses: Production Staff Activity A *Units: 3*
- THEA 1495 - Theatre Production Activity Courses: Studio Production Activity A *Units: 4*
- THEA 1497 - Theatre Production Activity Courses: Special Workshop or Production A *Units: 1-12*
- THEA 1499 - Theatre Production Activity Courses: Production Practicum A *Units: 4*
- THEA 2490 - Theatre Production Activity Courses: Costume or Backstage Activity B *Units: 2*
- THEA 2491 - Theatre Production Activity Courses: Musical Theatre Production B *Units: 4*
- THEA 2492 - Theatre Production Activity Courses: Stage Crew Activity B *Units: 2*
- THEA 2493 - Theatre Production Activity Courses: Production Staff Activity B *Units: 3*
- THEA 2495 - Theatre Production Activity Courses: Studio Production Activity B *Units: 4*
- THEA 2497 - Theatre Production Activity Courses: Special Workshop or Production B *Units: 1-12*
- THEA 2499 - Theatre Production Activity Courses: Production Practicum B *Units: 4*

Choose an Area of Emphasis

Complete 10 units from **ONE** of the following areas of emphasis: Dance, Acting, or Technology and Design.

Unless specified, courses should be numbered below 2999, and listed in the Course Descriptions of this catalog under the filter TYPE: **Subject Area Course List**

Note: Students pursuing the following options

- *Acting Option, Musical Theatre Option, and Directing & Creative Vision Option students are required to complete the 10 units of Acting Emphasis;*
- *Dance Option students are required to complete the 10 units of Dancing Emphasis;*
- *Technology & Design Option students are required to complete the 10 units of Technology & Design Emphasis.*

Acting Emphasis

At least 3 units from:

- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*

Choose one course (2 units) from Musical Theatre Dance

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Complete 3 units from the following courses

- THEA 2031 - Stage Voice A *Units: 1*
- THEA 2032 - Stage Voice B *Units: 1*

And the following 3 courses

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*

Dance Emphasis

Choose 5 units of beginning or intermediate dance technique courses in either: Ballet, Hip Hop, Modern, Musical Theatre, or Jazz.

- DANC 1131 - Beginning Technique Classes: Beginning Hip Hop Dance I *Units: 1*
- DANC 1132 - Beginning Technique Classes: Beginning Hip Hop Dance II *Units: 1*
- DANC 1133 - Beginning Technique Classes: Beginning Hip Hop Dance III *Units: 1*
- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*
- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*
- DANC 1171 - Beginning Technique Classes: Beginning Jazz Dance I *Units: 1*
- DANC 1172 - Beginning Technique Classes: Beginning Jazz Dance II *Units: 1*
- DANC 1173 - Beginning Technique Classes: Beginning Jazz Dance III *Units: 1*
- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*

- DANC 2120 - Musical Theatre Dance A *Units: 2*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*
- DANC 2131 - Intermediate Technique Classes: Intermediate Hip Hop Dance I
Units: 1
- DANC 2132 - Intermediate Technique Classes: Intermediate Hip Hop Dance II
Units: 1
- DANC 2141 - Intermediate Technique Classes: Intermediate Modern Dance I
Units: 1
- DANC 2142 - Intermediate Technique Classes: Intermediate Modern Dance II
Units: 1
- DANC 2171 - Intermediate Technique Classes: Intermediate Jazz Dance I *Units: 1*
- DANC 2172 - Intermediate Technique Classes: Intermediate Jazz Dance II
Units: 1
- DANC 2173 - Intermediate Technique Classes: Intermediate Jazz Dance III
Units: 1
- DANC 2191 - Intermediate Technique Classes: Intermediate Ballet Dance I
Units: 1
- DANC 2192 - Intermediate Technique Classes: Intermediate Ballet Dance II
Units: 1
- DANC 2193 - Intermediate Technique Classes: Intermediate Ballet Dance III
Units: 1

One course (2 units) from:

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Three technology and design courses (3 units):

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus
Units: 1
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*

Technology & Design Emphasis

Two (2) units from:

- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*
- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*

- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*

Five (5) courses from technology & design:

- THEA 2421 - Fundamental Backstage Technology: Wood Scenery: Walls and Levels *Units: 1*
- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*
- THEA 2425 - Fundamental Backstage Technology: Stage Effects *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*
- THEA 2429 - Fundamental Backstage Technology: Practical Drafting and Model Building *Units: 1*
- THEA 2430 - Fundamental Backstage Technology: Practical Make-up *Units: 1*

And the following 3 units:

- THEA 1020 - Discover Acting *Units: 3*

Upper Division Required Core Courses

Complete the following 30 units or required courses:

- DANC 3251 - Movement Analysis *Units: 4*
- DANC 3252 - Dance Through the Ages *Units: 4*
- THEA 3253 - Theatre Through the Ages *Units: 4*
- THEA 3254 - Scenery, Lights, and Sound Concepts *Units: 4*
- THEA 3255 - Costumes and Makeup Concepts *Units: 4*
- THEA 3256 - Directing: Text to Stage *Units: 3*
- THEA 3257 - Design for Stage *Units: 3*
- Plus one (1) additional lower division THEA or DANC course (see the filter TYPE: Subject Area Course List under Course Descriptions)

Core Culmination and Assessment Courses

Each student must complete the following 10 units. A Senior Culmination Project is to include either a performance project in the Senior Festival, a written thesis, or a substantial internship. Students may substitute internship credit or thesis-related Independent Study credit for their Senior Festival courses.

- THEA 4151 - Senior Festival Preproduction *Units: 3*
- THEA 4152 - Senior Festival Performance *Units: 3*
- THEA 4155 - Career Management Issues in Theatre Arts *Units: 4*

Option Requirements

To complete the Theatre B.A. degree additional units are required from one of the following:

- Theatre Arts, B.A. (with Advanced Electives) non-option
- Theatre Arts, Acting Option, B.A.
- Theatre Arts, Dance Option, B.A.
- Theatre Arts, Directing and Creative Vision Option, B.A.
- Theatre Arts, Musical Theatre Option, B.A.
- Theatre Arts, Technology and Design Option, B.A.

Dance Option (34-49 units)

Total major units with this option: 90-105. *Majors must participate in three productions for credit in the last two years to complete the Advanced Electives.*

Endorsements

Students may fulfill assignments, projects, performances, internships and service learning experiences to enhance preparation for specific careers in dance such as choreography, teaching, or performance. Students who have completed a prearranged plan will qualify for an endorsement upon graduation. Endorsement plans should be arranged in Year Three with the major advisor, dance faculty, and Chair. An endorsement plan might involve alternative assignments or additional requirements. Taking the courses in their plan qualifies a student for consideration. The dance faculty will make endorsements for superior achievement. Achievement goals should be spelled out in the plan. Endorsements will not appear on the transcript or diploma, but will be kept on file by the department. Students may plan for one or more of the following endorsements: 1) Choreography Endorsement; 2) Technique & Performance Endorsement; 3) Teaching Endorsement.

Required Intermediate-level Courses (6 units)

Complete three (3) of the following courses:

- DANC 2020 - Rhythm and Music for Dance *Units: 2*
- DANC 2341 - Improvisation in Art and Life *Units: 2*
- DANC 2342 - Integrating Theatre and Dance *Units: 2*
- DANC 2343 - Body and Mind Training for Performance *Units: 2*
- DANC 2344 - Site Specific Performance *Units: 2*

Advanced Technique Courses (6-12 units)

Complete a minimum of six (6) courses in at least three styles. Students in these courses must pass a placement audition in the first class meeting.

Note: students should take additional technique courses from the SACL at the beginning and intermediate levels to qualify for the following third/fourth year advanced technique courses.

- DANC 3101 - Dance Ensemble Technique A *Units: 1*
- DANC 3102 - Dance Ensemble Technique B *Units: 1*

- DANC 3103 - Dance Ensemble Technique C *Units: 1*
- DANC 3104 - Dance Ensemble Technique D *Units: 1*
- DANC 3105 - Dance Ensemble Technique E *Units: 1*
- DANC 3106 - Dance Ensemble Technique F *Units: 1*
- DANC 4131 - Advanced Dance Technique Courses: Advanced Hip Hop Dance I *Units: 2*
- DANC 4132 - Advanced Dance Technique Courses: Advanced Hip Hop Dance II *Units: 2*
- DANC 4133 - Advanced Dance Technique Courses: Advanced Hip Hop Dance III *Units: 2*
- DANC 4135 - Advanced Dance Technique Courses: Advanced Breakdance I *Units: 2*
- DANC 4136 - Advanced Dance Technique Courses: Advanced Breakdance II *Units: 2*
- DANC 4137 - Advanced Dance Technique Courses: Advanced Breakdance III *Units: 2*
- DANC 4141 - Advanced Dance Technique Courses: Advanced Modern Dance I *Units: 2*
- DANC 4142 - Advanced Dance Technique Courses: Advanced Modern Dance II *Units: 2*
- DANC 4143 - Advanced Dance Technique Courses: Advanced Modern Dance III *Units: 2*
- DANC 4171 - Advanced Dance Technique Courses: Advanced Jazz Dance I *Units: 2*
- DANC 4172 - Advanced Dance Technique Courses: Advanced Jazz Dance II *Units: 2*
- DANC 4173 - Advanced Dance Technique Courses: Advanced Jazz Dance I *Units: 2*
- DANC 4191 - Advanced Dance Technique Courses: Advanced/Intermediate Ballet Dance I *Units: 2*
- DANC 4192 - Advanced Dance Technique Courses: Advanced/Intermediate Ballet Dance II *Units: 2*
- DANC 4193 - Advanced Dance Technique Courses: Advanced/Intermediate Ballet Dance III *Units: 2*

Advanced Electives (22-31 units)

Theatre History and Literature Elective (4 units)

- DANC 4201 Dance in Modern Society

Production and Performance (9 units)

- At least three Production and Performance courses, numbered 3000 and above, covering at least three show assignments during the final two years.

Advanced Technique Elective (9-18 units)

- DANC 3451 - Dance Ensemble A *Units: 3*
- DANC 3452 - Dance Ensemble B *Units: 3*
- DANC 3453 - Dance Ensemble C *Units: 3*
- DANC 3454 - Dance Ensemble D *Units: 3*
- DANC 3455 - Dance Ensemble E *Units: 3*
- DANC 3456 - Dance Ensemble F *Units: 3*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Theatre Arts, Directing and Creative Vision Option, B.A.

Department & Faculty Information

Theatre Arts (B.A.) 180 units

Program Description

The Department of Theatre and Dance provides comprehensive pre-professional training in the areas of acting, directing, dance, design, theatre technology, and musical theatre. The primary goal of the program is to develop artists whose performance skills and creativity are supported by a firm background in history, literature, and aesthetics. In an environment designed to encourage creativity and self-expression, each student has opportunities to participate in various specializations within the major-acting, costuming, dance, directing, scenery, lighting, sound, creative vision, or management. Students perform regularly in a variety of theatre and dance productions.

Theatre Arts graduates acquire a range of skills. This enables them to pursue different professional options. Many have entered advanced studies in nationally recognized universities and conservatories. Some have chosen careers in teaching, while others have gone directly into theatre or dance performance. Alumni perform on professional stages around the world, including Broadway and Hollywood. Some have been nominated for Tonys, Emmys, and Oscars; and, one designer won an Emmy and Art Directors Guild award. Employers in other professions desire Theatre Arts graduates for their team skills, their imaginative approach to problems, and their ability to communicate creatively.

Student Learning Outcomes

Students graduating with a B.A. in Theatre Arts from Cal State East Bay will be able to:

- communicate in writing, orally, non-verbally, and visually in their area of emphasis.
- conduct background research, evaluate scripts, and analyze performance for use in scholarly and performance applications.
- employ historical, contemporary, and cultural performance techniques, as well as production technology appropriate to their area of emphasis.
- reflect on performance techniques and concepts of other performers and apply high standards of reflection to their own production work.
- solve problems of production by creating roles, dancing, designing, managing, building, directing, or choreographing performances that address issues of life in striking and remarkable ways.

Career Opportunities

- Actor/Actress
- Broadcast Technician
- Business Agent
- Choreographer
- College Student Services
- Comedian
- Corporate Officer
- Costume Designer
- Costume Technician
- Dancer
- Director
- Drama or Dance Teacher/Professor
- Dramaturg
- Lighting Technician
- Make-Up Artist/Specialist
- Non-profit Manager
- Performing Arts Fundraiser
- Playwright
- Producer
- Recreation Supervisor
- Sales Manager
- Set Decorator
- Set Designer
- Sound Technician
- Stage Manager
- Theatre Critic
- Theatre Technician
- Theatre Manager

Features

The Department of Theatre and Dance produces approximately 5-8 plays and dance concerts during the year. The selection of plays exposes students to design, acting, dance, singing, directing, stage

management, and technical theatre suitable to a wide variety of styles, periods, and genres from Shakespeare to American Realism and from Greek Tragedy to Modern Drama.

The department has several ensemble groups, including Musical Theatre, Dance, Acting, Inclusive Interdisciplinary, and Design/Technology, that add to a varied and challenging performance schedule. Since 1990, sixteen department productions have toured to the Edinburgh Festival Fringe in Scotland and three other countries as part of the summer program.

The Theatre and Dance Department is fortunate to have excellent facilities including the 460 seat University Theatre, scene shop, costume shop, a sixteen-station design/drafting studio with a separate digital lab, two studio classrooms, green room, make-up room, dressing rooms with lockers and showers, and a spacious Dance Studio.

Subject Area Course Lists (SACL)

Four-year CSUEB students should take any THEA or DANC course in a First Year General Education Cluster. For a list of all SACL designated courses use the Course Description link below or see your department advisor.

Transfer students may petition the Chair to substitute a course with the following types of content:

- a theatre literature and history course with required reading of at least six plays,
- a performance appreciation course that required attendance and a review of at least four shows,
- a script analysis course, or a creative methods course (specifically any course that articulates with DANC 1200).

Transfer students may also meet the requirement with one of the courses approved for four-year students. Substitutes require advanced approval of the Chair.

Major Requirements (B.A.) 75-109 units

The B.A. degree requires a total of 180 units.

- The core major consists of 56 units;
- the electives for non- Option consists of 19 units;
- the Acting Option consists of 39-40 units.
- the Dance Option consists of 34-49 units;
- the Directing and Creative Vision Option consists of 41 units.
- the Musical Theatre Option consists of 53 units;
- the Technology and Design Option consists of 39-41 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult with your advisor for clarification and interpretation of major requirements.

Common Core Courses (56 units)

Lower Division Beginning Elective Units

Production and Performance

Complete three (3) show assignments for 6 units in the first two years from the following:

- THEA 1490 - Theatre Production Activity Courses: Costume or Backstage Activity A *Units: 2*
- THEA 1491 - Theatre Production Activity Courses: Musical Theatre Production A *Units: 4*
- THEA 1492 - Theatre Production Activity Courses: Stage Crew Activity A *Units: 2*
- THEA 1493 - Theatre Production Activity Courses: Production Staff Activity A *Units: 3*
- THEA 1495 - Theatre Production Activity Courses: Studio Production Activity A *Units: 4*
- THEA 1497 - Theatre Production Activity Courses: Special Workshop or Production A *Units: 1-12*
- THEA 1499 - Theatre Production Activity Courses: Production Practicum A *Units: 4*
- THEA 2490 - Theatre Production Activity Courses: Costume or Backstage Activity B *Units: 2*
- THEA 2491 - Theatre Production Activity Courses: Musical Theatre Production B *Units: 4*
- THEA 2492 - Theatre Production Activity Courses: Stage Crew Activity B *Units: 2*
- THEA 2493 - Theatre Production Activity Courses: Production Staff Activity B *Units: 3*
- THEA 2495 - Theatre Production Activity Courses: Studio Production Activity B *Units: 4*
- THEA 2497 - Theatre Production Activity Courses: Special Workshop or Production B *Units: 1-12*
- THEA 2499 - Theatre Production Activity Courses: Production Practicum B *Units: 4*

Choose an Area of Emphasis

Complete 10 units from **ONE** of the following areas of emphasis: Dance, Acting, or Technology and Design.

Unless specified, courses should be numbered below 2999, and listed in the Course Descriptions of this catalog under the filter TYPE: **Subject Area Course List**

Note: Students pursuing the following options

- *Acting Option, Musical Theatre Option, and Directing & Creative Vision Option students are required to complete the 10 units of Acting Emphasis;*
- *Dance Option students are required to complete the 10 units of Dancing Emphasis;*
- *Technology & Design Option students are required to complete the 10 units of Technology & Design Emphasis.*

Acting Emphasis

At least 3 units from:

- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*

Choose one course (2 units) from Musical Theatre Dance

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Complete 3 units from the following courses

- THEA 2031 - Stage Voice A *Units: 1*
- THEA 2032 - Stage Voice B *Units: 1*

And the following 3 courses

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*

Dance Emphasis

Choose 5 units of beginning or intermediate dance technique courses in either: Ballet, Hip Hop, Modern, Musical Theatre, or Jazz.

- DANC 1131 - Beginning Technique Classes: Beginning Hip Hop Dance I *Units: 1*
- DANC 1132 - Beginning Technique Classes: Beginning Hip Hop Dance II *Units: 1*
- DANC 1133 - Beginning Technique Classes: Beginning Hip Hop Dance III *Units: 1*
- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*
- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*
- DANC 1171 - Beginning Technique Classes: Beginning Jazz Dance I *Units: 1*
- DANC 1172 - Beginning Technique Classes: Beginning Jazz Dance II *Units: 1*
- DANC 1173 - Beginning Technique Classes: Beginning Jazz Dance III *Units: 1*
- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*

- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*
- DANC 2120 - Musical Theatre Dance A *Units: 2*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*
- DANC 2131 - Intermediate Technique Classes: Intermediate Hip Hop Dance I
Units: 1
- DANC 2132 - Intermediate Technique Classes: Intermediate Hip Hop Dance II
Units: 1
- DANC 2141 - Intermediate Technique Classes: Intermediate Modern Dance I
Units: 1
- DANC 2142 - Intermediate Technique Classes: Intermediate Modern Dance II
Units: 1
- DANC 2171 - Intermediate Technique Classes: Intermediate Jazz Dance I *Units: 1*
- DANC 2172 - Intermediate Technique Classes: Intermediate Jazz Dance II
Units: 1
- DANC 2173 - Intermediate Technique Classes: Intermediate Jazz Dance III
Units: 1
- DANC 2191 - Intermediate Technique Classes: Intermediate Ballet Dance I
Units: 1
- DANC 2192 - Intermediate Technique Classes: Intermediate Ballet Dance II
Units: 1
- DANC 2193 - Intermediate Technique Classes: Intermediate Ballet Dance III
Units: 1

One course (2 units) from:

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Three technology and design courses (3 units):

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus
Units: 1
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*

Technology & Design Emphasis

Two (2) units from:

- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*

- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*
- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*

Five (5) courses from technology & design:

- THEA 2421 - Fundamental Backstage Technology: Wood Scenery: Walls and Levels *Units: 1*
- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*
- THEA 2425 - Fundamental Backstage Technology: Stage Effects *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*
- THEA 2429 - Fundamental Backstage Technology: Practical Drafting and Model Building *Units: 1*
- THEA 2430 - Fundamental Backstage Technology: Practical Make-up *Units: 1*

And the following 3 units:

- THEA 1020 - Discover Acting *Units: 3*

Upper Division Required Core Courses

Complete the following 30 units or required courses:

- DANC 3251 - Movement Analysis *Units: 4*
- DANC 3252 - Dance Through the Ages *Units: 4*
- THEA 3253 - Theatre Through the Ages *Units: 4*
- THEA 3254 - Scenery, Lights, and Sound Concepts *Units: 4*
- THEA 3255 - Costumes and Makeup Concepts *Units: 4*
- THEA 3256 - Directing: Text to Stage *Units: 3*
- THEA 3257 - Design for Stage *Units: 3*
- Plus one (1) additional lower division THEA or DANC course (see the filter TYPE: Subject Area Course List under Course Descriptions)

Core Culmination and Assessment Courses

Each student must complete the following 10 units. A Senior Culmination Project is to include either a performance project in the Senior Festival, a written thesis, or a substantial internship. Students may substitute internship credit or thesis-related Independent Study credit for their Senior Festival courses.

- THEA 4151 - Senior Festival Preproduction *Units: 3*
- THEA 4152 - Senior Festival Performance *Units: 3*

- THEA 4155 - Career Management Issues in Theatre Arts *Units: 4*

Option Requirements

To complete the Theatre B.A. degree additional units are required from one of the following:

- Theatre Arts, B.A. (with Advanced Electives) non-option
- Theatre Arts, Acting Option, B.A.
- Theatre Arts, Dance Option, B.A.
- Theatre Arts, Directing and Creative Vision Option, B.A.
- Theatre Arts, Musical Theatre Option, B.A.
- Theatre Arts, Technology and Design Option, B.A.

Directing and Creative Vision Option (41 units)

Total major units with this option: 97.

Advanced Electives

Theatre History and Literature Elective (8 units):

- One additional course in Theatre History and Literature (or) Dance History.
Plus **one additional course** from the following:

- THEA 3201 Classical Greek and Roman Drama
- THEA 3202 European Medieval and Renaissance Drama
- THEA 3203 Modern European Drama
- THEA 3207 Modern American Theatre
- THEA 3216 History of Musical Theatre
- THEA 3220 The History of Black Theatre
- THEA 4375 Ethnic and Immigrant Theatre in the United States

Production and Performance Elective (15 units):

- At least three Production and Performance courses, numbered 3000 and above, covering at least three show assignments during the final two years.
- Plus complete at least **two additional courses (minimum 6 units)** in Production and Performance numbered 4490-4499. **Note:** Assignments for these courses must be creative projects approved by the chair and advisor in advance. Candidates for this option must submit a project journal to their advisor for evaluation upon completion of each assignment. Both project and journals will be considered in grading the assignments.

Advanced Technique Elective (18 units):

- Two additional courses in advanced technique. Take courses numbered 3000 or above in ONE area of emphasis: Acting, Dance, or Technology and Design.
- Plus an **additional 12 units** from the groups listed below. No more than six units may be applied from one group.

Dance Vision

- DANC 3451 - Dance Ensemble A *Units: 3*
- DANC 3452 - Dance Ensemble B *Units: 3*
- DANC 3453 - Dance Ensemble C *Units: 3*
- DANC 3454 - Dance Ensemble D *Units: 3*
- DANC 3455 - Dance Ensemble E *Units: 3*
- DANC 3456 - Dance Ensemble F *Units: 3*
- DANC 3461 - Inclusive Interdisciplinary Ensemble A *Units: 2*
- DANC 3462 - Inclusive Interdisciplinary Ensemble B *Units: 2*
- DANC 3463 - Inclusive Interdisciplinary Ensemble C *Units: 2*
- DANC 3464 - Inclusive Interdisciplinary Ensemble D *Units: 2*
- DANC 3465 - Inclusive Interdisciplinary Ensemble E *Units: 2*
- DANC 3466 - Inclusive Interdisciplinary Ensemble F *Units: 2*

Standard Directing

Note: In these classes, Directing and Creative Vision students will direct classroom scenes.

- THEA 3052 - Acting for the Camera *Units: 4*
- THEA 4032 - Period Acting Style: Restoration and Moliere *Units: 3*
- THEA 4038 - Acting Studio I *Units: 3*

Technology and Design

- THEA 3422 - History of Costume *Units: 4*
- THEA 3423 - Non-Western Costume *Units: 4*
- THEA 3424 - Scene Painting and Graphic Language *Units: 4*

Theatre Vision

- THEA 3070 - Leadership in Cultural Production *Units: 2*
- THEA 3071 - Creating a Cultural Production *Units: 2*
- THEA 3072 - Cultural Groups in Performance *Units: 4*
- THEA 3073 - Solo Performance: Research Methods *Units: 3*
- THEA 3074 - Solo Performance: Talk Story Techniques *Units: 3*
- THEA 3075 - Solo Performance: Writing about Political and Social Issues *Units: 3*
- THEA 3078 - Solo Performance: Production *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women

requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Theatre Arts, Musical Theatre Option, B.A.

Department & Faculty Information

Theatre Arts (B.A.) 180 units

Program Description

The Department of Theatre and Dance provides comprehensive pre-professional training in the areas of acting, directing, dance, design, theatre technology, and musical theatre. The primary goal of the program is to develop artists whose performance skills and creativity are supported by a firm background in history, literature, and aesthetics. In an environment designed to encourage creativity and self-expression, each student has opportunities to participate in various specializations within the major-acting, costuming, dance, directing, scenery, lighting, sound, creative vision, or management. Students perform regularly in a variety of theatre and dance productions.

Theatre Arts graduates acquire a range of skills. This enables them to pursue different professional options. Many have entered advanced studies in nationally recognized universities and conservatories. Some have chosen careers in teaching, while others have gone directly into theatre or dance performance. Alumni perform on professional stages around the world, including Broadway and Hollywood. Some have been nominated for Tonys, Emmys, and Oscars; and, one designer won an Emmy and Art Directors Guild award. Employers in other professions desire Theatre Arts graduates for their team skills, their imaginative approach to problems, and their ability to communicate creatively.

Student Learning Outcomes

Students graduating with a B.A. in Theatre Arts from Cal State East Bay will be able to:

- communicate in writing, orally, non-verbally, and visually in their area of emphasis.
- conduct background research, evaluate scripts, and analyze performance for use in scholarly and performance applications.
- employ historical, contemporary, and cultural performance techniques, as well as production technology appropriate to their area of emphasis.
- reflect on performance techniques and concepts of other performers and apply high standards of reflection to their own production work.
- solve problems of production by creating roles, dancing, designing, managing, building, directing, or choreographing performances that address issues of life in striking and remarkable ways.

Career Opportunities

- Actor/Actress
- Broadcast Technician
- Business Agent
- Choreographer

- College Student Services
- Comedian
- Corporate Officer
- Costume Designer
- Costume Technician
- Dancer
- Director
- Drama or Dance Teacher/Professor
- Dramaturg
- Lighting Technician
- Make-Up Artist/Specialist
- Non-profit Manager
- Performing Arts Fundraiser
- Playwright
- Producer
- Recreation Supervisor
- Sales Manager
- Set Decorator
- Set Designer
- Sound Technician
- Stage Manager
- Theatre Critic
- Theatre Technician
- Theatre Manager

Features

The Department of Theatre and Dance produces approximately 5-8 plays and dance concerts during the year. The selection of plays exposes students to design, acting, dance, singing, directing, stage management, and technical theatre suitable to a wide variety of styles, periods, and genres from Shakespeare to American Realism and from Greek Tragedy to Modern Drama.

The department has several ensemble groups, including Musical Theatre, Dance, Acting, Inclusive Interdisciplinary, and Design/Technology, that add to a varied and challenging performance schedule. Since 1990, sixteen department productions have toured to the Edinburgh Festival Fringe in Scotland and three other countries as part of the summer program.

The Theatre and Dance Department is fortunate to have excellent facilities including the 460 seat University Theatre, scene shop, costume shop, a sixteen-station design/drafting studio with a separate digital lab, two studio classrooms, green room, make-up room, dressing rooms with lockers and showers, and a spacious Dance Studio.

Subject Area Course Lists (SACL)

Four-year CSUEB students should take any THEA or DANC course in a First Year General Education Cluster. For a list of all SACL designated courses use the Course Description link below or see your department advisor.

Transfer students may petition the Chair to substitute a course with the following types of content:

- a theatre literature and history course with required reading of at least six plays,
- a performance appreciation course that required attendance and a review of at least four shows,
- a script analysis course, or a creative methods course (specifically any course that articulates with DANC 1200).

Transfer students may also meet the requirement with one of the courses approved for four-year students. Substitutes require advanced approval of the Chair.

Major Requirements (B.A.) 75-109 units

The B.A. degree requires a total of 180 units.

- The core major consists of 56 units;
- the electives for non- Option consists of 19 units;
- the Acting Option consists of 39-40 units.
- the Dance Option consists of 34-49 units;
- the Directing and Creative Vision Option consists of 41 units.
- the Musical Theatre Option consists of 53 units;
- the Technology and Design Option consists of 39-41 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult with your advisor for clarification and interpretation of major requirements.

Common Core Courses (56 units)

Lower Division Beginning Elective Units

Production and Performance

Complete three (3) show assignments for 6 units in the first two years from the following:

- THEA 1490 - Theatre Production Activity Courses: Costume or Backstage Activity A *Units: 2*
- THEA 1491 - Theatre Production Activity Courses: Musical Theatre Production A *Units: 4*
- THEA 1492 - Theatre Production Activity Courses: Stage Crew Activity A *Units: 2*
- THEA 1493 - Theatre Production Activity Courses: Production Staff Activity A *Units: 3*
- THEA 1495 - Theatre Production Activity Courses: Studio Production Activity A *Units: 4*
- THEA 1497 - Theatre Production Activity Courses: Special Workshop or Production A *Units: 1-12*
- THEA 1499 - Theatre Production Activity Courses: Production Practicum A *Units: 4*

- THEA 2490 - Theatre Production Activity Courses: Costume or Backstage Activity B *Units: 2*
- THEA 2491 - Theatre Production Activity Courses: Musical Theatre Production B *Units: 4*
- THEA 2492 - Theatre Production Activity Courses: Stage Crew Activity B *Units: 2*
- THEA 2493 - Theatre Production Activity Courses: Production Staff Activity B *Units: 3*
- THEA 2495 - Theatre Production Activity Courses: Studio Production Activity B *Units: 4*
- THEA 2497 - Theatre Production Activity Courses: Special Workshop or Production B *Units: 1-12*
- THEA 2499 - Theatre Production Activity Courses: Production Practicum B *Units: 4*

Choose an Area of Emphasis

Complete 10 units from **ONE** of the following areas of emphasis: Dance, Acting, or Technology and Design.

Unless specified, courses should be numbered below 2999, and listed in the Course Descriptions of this catalog under the filter TYPE: **Subject Area Course List**

Note: Students pursuing the following options

- *Acting Option, Musical Theatre Option, and Directing & Creative Vision Option students are required to complete the 10 units of Acting Emphasis;*
- *Dance Option students are required to complete the 10 units of Dancing Emphasis;*
- *Technology & Design Option students are required to complete the 10 units of Technology & Design Emphasis.*

Acting Emphasis

At least 3 units from:

- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*

Choose one course (2 units) from Musical Theatre Dance

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Complete 3 units from the following courses

- THEA 2031 - Stage Voice A *Units: 1*
- THEA 2032 - Stage Voice B *Units: 1*

And the following 3 courses

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*

Dance Emphasis

Choose 5 units of beginning or intermediate dance technique courses in either: Ballet, Hip Hop, Modern, Musical Theatre, or Jazz.

- DANC 1131 - Beginning Technique Classes: Beginning Hip Hop Dance I *Units: 1*
- DANC 1132 - Beginning Technique Classes: Beginning Hip Hop Dance II *Units: 1*
- DANC 1133 - Beginning Technique Classes: Beginning Hip Hop Dance III *Units: 1*
- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*
- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*
- DANC 1171 - Beginning Technique Classes: Beginning Jazz Dance I *Units: 1*
- DANC 1172 - Beginning Technique Classes: Beginning Jazz Dance II *Units: 1*
- DANC 1173 - Beginning Technique Classes: Beginning Jazz Dance III *Units: 1*
- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*
- DANC 2120 - Musical Theatre Dance A *Units: 2*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*
- DANC 2131 - Intermediate Technique Classes: Intermediate Hip Hop Dance I *Units: 1*
- DANC 2132 - Intermediate Technique Classes: Intermediate Hip Hop Dance II *Units: 1*
- DANC 2141 - Intermediate Technique Classes: Intermediate Modern Dance I *Units: 1*
- DANC 2142 - Intermediate Technique Classes: Intermediate Modern Dance II *Units: 1*

- DANC 2171 - Intermediate Technique Classes: Intermediate Jazz Dance I *Units: 1*
- DANC 2172 - Intermediate Technique Classes: Intermediate Jazz Dance II *Units: 1*
- DANC 2173 - Intermediate Technique Classes: Intermediate Jazz Dance III *Units: 1*
- DANC 2191 - Intermediate Technique Classes: Intermediate Ballet Dance I *Units: 1*
- DANC 2192 - Intermediate Technique Classes: Intermediate Ballet Dance II *Units: 1*
- DANC 2193 - Intermediate Technique Classes: Intermediate Ballet Dance III *Units: 1*

One course (2 units) from:

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Three technology and design courses (3 units):

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*

Technology & Design Emphasis

Two (2) units from:

- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*
- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*
- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*

Five (5) courses from technology & design:

- THEA 2421 - Fundamental Backstage Technology: Wood Scenery: Walls and Levels *Units: 1*
- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*
- THEA 2425 - Fundamental Backstage Technology: Stage Effects *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*

- THEA 2429 - Fundamental Backstage Technology: Practical Drafting and Model Building *Units: 1*
- THEA 2430 - Fundamental Backstage Technology: Practical Make-up *Units: 1*

And the following 3 units:

- THEA 1020 - Discover Acting *Units: 3*

Upper Division Required Core Courses

Complete the following 30 units or required courses:

- DANC 3251 - Movement Analysis *Units: 4*
- DANC 3252 - Dance Through the Ages *Units: 4*
- THEA 3253 - Theatre Through the Ages *Units: 4*
- THEA 3254 - Scenery, Lights, and Sound Concepts *Units: 4*
- THEA 3255 - Costumes and Makeup Concepts *Units: 4*
- THEA 3256 - Directing: Text to Stage *Units: 3*
- THEA 3257 - Design for Stage *Units: 3*
- Plus one (1) additional lower division THEA or DANC course (see the filter TYPE: Subject Area Course List under Course Descriptions)

Core Culmination and Assessment Courses

Each student must complete the following 10 units. A Senior Culmination Project is to include either a performance project in the Senior Festival, a written thesis, or a substantial internship. Students may substitute internship credit or thesis-related Independent Study credit for their Senior Festival courses.

- THEA 4151 - Senior Festival Preproduction *Units: 3*
- THEA 4152 - Senior Festival Performance *Units: 3*
- THEA 4155 - Career Management Issues in Theatre Arts *Units: 4*

Option Requirements

To complete the Theatre B.A. degree additional units are required from one of the following:

- Theatre Arts, B.A. (with Advanced Electives) non-option
- Theatre Arts, Acting Option, B.A.
- Theatre Arts, Dance Option, B.A.
- Theatre Arts, Directing and Creative Vision Option, B.A.
- Theatre Arts, Musical Theatre Option, B.A.
- Theatre Arts, Technology and Design Option, B.A.

Musical Theatre Option (53 units)

Total major units with this option: 109 units. **Optional: Audition for winter musical production in first year.**

Required Courses (21 units)

- THEA 2035 - Fundamentals of Acting *Units: 3*
- THEA 2045 - Applied Singing for Musical Theatre A *Units: 1*
- THEA 2046 - Applied Singing for Musical Theatre B *Units: 1*
- THEA 2047 - Applied Singing for Musical Theatre C *Units: 1*
- THEA 2055 - Intermediate Acting I *Units: 2*
- THEA 2044 - Fundamental Musical Theatre Techniques *Units: 3*
- THEA 3041 - Advanced Applied Singing for Musical Theatre I *Units: 1*
- THEA 3042 - Advanced Applied Singing for Musical Theatre II *Units: 1*
- THEA 3043 - Advanced Applied Singing for Musical Theatre III *Units: 1*
- THEA 4040 - Musical Theatre Journal Review *Units: 1*
- THEA 4048 - Advanced Musical Ensemble A *Units: 3*
- THEA 4049 - Advanced Musical Ensemble B *Units: 3*

Musical Dance (10 units)

Complete one (1) course over five additional quarters from the following:

- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*

Advanced Electives (22 units)

Theatre History and Literature Elective (4 units):

- *THEA 3216 History of Musical Theatre Units:4*

Advanced Technique Elective (6 units):

- *THEA 3048 Musical Theatre Technique I Units: 3*
- *THEA 3049 Musical Theatre Technique II Units: 3*

Production and Performance Elective (12 units):

Students in this option should Audition for and take winter musical production for credit in second through fourth year. Take one of the following courses each time and apply them to the Production and Performance requirements.

- *THEA 2491 Theatre Production Activity Courses: Musical Theatre Production B Units: 4*
- *THEA 3491 Theatre Production Activity Courses: Musical Theatre Production C Units: 4*
- *THEA 4491 Theatre Production Activity Courses: Musical Theatre Production D Units: 4*

Notes:

- Applied singing courses (lessons) are by audition and might require a course fee. Option students are required to take regular singing lessons.
- Option students are required to perform twice each year in Year Two through Four. As shown above, option students must audition for the winter musical three years and perform in three department musicals. Off campus productions allowed by agreement with an advisor. Journal required for each production.
- The following Music courses are highly recommended, but not required. Note that success in sightsinging requires experience reading music or concurrent enrollment in Music Theory. Without experience, consider taking a basic musicianship class for nonmajors first.
- MUS 1027 - Sightsinging I *Units: 1*
- MUS 1028 - Sightsinging II *Units: 1*
- MUS 1029 - Sightsinging III *Units: 1*
- MUS 1031 - Music Theory I *Units: 4*
- MUS 1032 - Music Theory II *Units: 4*
- MUS 1033 - Music Theory III *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Theatre Arts, Technology and Design Option, B.A.

Department & Faculty Information

Theatre Arts (B.A.) 180 units

Program Description

The Department of Theatre and Dance provides comprehensive pre-professional training in the areas of acting, directing, dance, design, theatre technology, and musical theatre. The primary goal of the program is to develop artists whose performance skills and creativity are supported by a firm background in history, literature, and aesthetics. In an environment designed to encourage creativity and self-expression, each student has opportunities to participate in various specializations within the major-acting, costuming, dance, directing, scenery, lighting, sound, creative vision, or management. Students perform regularly in a variety of theatre and dance productions.

Theatre Arts graduates acquire a range of skills. This enables them to pursue different professional options. Many have entered advanced studies in nationally recognized universities and conservatories.

Some have chosen careers in teaching, while others have gone directly into theatre or dance performance. Alumni perform on professional stages around the world, including Broadway and Hollywood. Some have been nominated for Tonys, Emmys, and Oscars; and, one designer won an Emmy and Art Directors Guild award. Employers in other professions desire Theatre Arts graduates for their team skills, their imaginative approach to problems, and their ability to communicate creatively.

Student Learning Outcomes

Students graduating with a B.A. in Theatre Arts from Cal State East Bay will be able to:

- communicate in writing, orally, non-verbally, and visually in their area of emphasis.
- conduct background research, evaluate scripts, and analyze performance for use in scholarly and performance applications.
- employ historical, contemporary, and cultural performance techniques, as well as production technology appropriate to their area of emphasis.
- reflect on performance techniques and concepts of other performers and apply high standards of reflection to their own production work.
- solve problems of production by creating roles, dancing, designing, managing, building, directing, or choreographing performances that address issues of life in striking and remarkable ways.

Career Opportunities

- Actor/Actress
- Broadcast Technician
- Business Agent
- Choreographer
- College Student Services
- Comedian
- Corporate Officer
- Costume Designer
- Costume Technician
- Dancer
- Director
- Drama or Dance Teacher/Professor
- Dramaturg
- Lighting Technician
- Make-Up Artist/Specialist
- Non-profit Manager
- Performing Arts Fundraiser
- Playwright
- Producer
- Recreation Supervisor
- Sales Manager
- Set Decorator
- Set Designer
- Sound Technician
- Stage Manager
- Theatre Critic

- Theatre Technician
- Theatre Manager

Features

The Department of Theatre and Dance produces approximately 5-8 plays and dance concerts during the year. The selection of plays exposes students to design, acting, dance, singing, directing, stage management, and technical theatre suitable to a wide variety of styles, periods, and genres from Shakespeare to American Realism and from Greek Tragedy to Modern Drama.

The department has several ensemble groups, including Musical Theatre, Dance, Acting, Inclusive Interdisciplinary, and Design/Technology, that add to a varied and challenging performance schedule. Since 1990, sixteen department productions have toured to the Edinburgh Festival Fringe in Scotland and three other countries as part of the summer program.

The Theatre and Dance Department is fortunate to have excellent facilities including the 460 seat University Theatre, scene shop, costume shop, a sixteen-station design/drafting studio with a separate digital lab, two studio classrooms, green room, make-up room, dressing rooms with lockers and showers, and a spacious Dance Studio.

Subject Area Course Lists (SACL)

Four-year CSUEB students should take any THEA or DANC course in a First Year General Education Cluster. For a list of all SACL designated courses use the Course Description link below or see your department advisor.

Transfer students may petition the Chair to substitute a course with the following types of content:

- a theatre literature and history course with required reading of at least six plays,
- a performance appreciation course that required attendance and a review of at least four shows,
- a script analysis course, or a creative methods course (specifically any course that articulates with DANC 1200).

Transfer students may also meet the requirement with one of the courses approved for four-year students. Substitutes require advanced approval of the Chair.

Major Requirements (B.A.) 75-109 units

The B.A. degree requires a total of 180 units.

- The core major consists of 56 units;
- the electives for non- Option consists of 19 units;
- the Acting Option consists of 39-40 units.
- the Dance Option consists of 34-49 units;
- the Directing and Creative Vision Option consists of 41 units.
- the Musical Theatre Option consists of 53 units;
- the Technology and Design Option consists of 39-41 units.
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Please consult with your advisor for clarification and interpretation of major requirements.

Common Core Courses (56 units)

Lower Division Beginning Elective Units

Production and Performance

Complete three (3) show assignments for 6 units in the first two years from the following:

- THEA 1490 - Theatre Production Activity Courses: Costume or Backstage Activity A *Units: 2*
- THEA 1491 - Theatre Production Activity Courses: Musical Theatre Production A *Units: 4*
- THEA 1492 - Theatre Production Activity Courses: Stage Crew Activity A *Units: 2*
- THEA 1493 - Theatre Production Activity Courses: Production Staff Activity A *Units: 3*
- THEA 1495 - Theatre Production Activity Courses: Studio Production Activity A *Units: 4*
- THEA 1497 - Theatre Production Activity Courses: Special Workshop or Production A *Units: 1-12*
- THEA 1499 - Theatre Production Activity Courses: Production Practicum A *Units: 4*
- THEA 2490 - Theatre Production Activity Courses: Costume or Backstage Activity B *Units: 2*
- THEA 2491 - Theatre Production Activity Courses: Musical Theatre Production B *Units: 4*
- THEA 2492 - Theatre Production Activity Courses: Stage Crew Activity B *Units: 2*
- THEA 2493 - Theatre Production Activity Courses: Production Staff Activity B *Units: 3*
- THEA 2495 - Theatre Production Activity Courses: Studio Production Activity B *Units: 4*
- THEA 2497 - Theatre Production Activity Courses: Special Workshop or Production B *Units: 1-12*
- THEA 2499 - Theatre Production Activity Courses: Production Practicum B *Units: 4*

Choose an Area of Emphasis

Complete 10 units from **ONE** of the following areas of emphasis: Dance, Acting, or Technology and Design.

Unless specified, courses should be numbered below 2999, and listed in the Course Descriptions of this catalog under the filter TYPE: **Subject Area Course List**

Note: Students pursuing the following options

- *Acting Option, Musical Theatre Option, and Directing & Creative Vision Option students are required to complete the 10 units of Acting Emphasis;*
- *Dance Option students are required to complete the 10 units of Dancing Emphasis;*
- *Technology & Design Option students are required to complete the 10 units of Technology & Design Emphasis.*

Acting Emphasis

At least 3 units from:

- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*

Choose one course (2 units) from Musical Theatre Dance

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Complete 3 units from the following courses

- THEA 2031 - Stage Voice A *Units: 1*
- THEA 2032 - Stage Voice B *Units: 1*

And the following 3 courses

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*

Dance Emphasis

Choose 5 units of beginning or intermediate dance technique courses in either: Ballet, Hip Hop, Modern, Musical Theatre, or Jazz.

- DANC 1131 - Beginning Technique Classes: Beginning Hip Hop Dance I *Units: 1*
- DANC 1132 - Beginning Technique Classes: Beginning Hip Hop Dance II *Units: 1*
- DANC 1133 - Beginning Technique Classes: Beginning Hip Hop Dance III *Units: 1*
- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*

- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*
- DANC 1171 - Beginning Technique Classes: Beginning Jazz Dance I *Units: 1*
- DANC 1172 - Beginning Technique Classes: Beginning Jazz Dance II *Units: 1*
- DANC 1173 - Beginning Technique Classes: Beginning Jazz Dance III *Units: 1*
- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*
- DANC 2120 - Musical Theatre Dance A *Units: 2*
- DANC 2121 - Musical Theatre Dance B *Units: 2*
- DANC 2122 - Musical Theatre Dance C *Units: 2*
- DANC 2123 - Musical Theatre Dance D *Units: 2*
- DANC 2124 - Musical Theatre Dance E *Units: 2*
- DANC 2125 - Musical Theatre Dance F *Units: 2*
- DANC 2131 - Intermediate Technique Classes: Intermediate Hip Hop Dance I *Units: 1*
- DANC 2132 - Intermediate Technique Classes: Intermediate Hip Hop Dance II *Units: 1*
- DANC 2141 - Intermediate Technique Classes: Intermediate Modern Dance I *Units: 1*
- DANC 2142 - Intermediate Technique Classes: Intermediate Modern Dance II *Units: 1*
- DANC 2171 - Intermediate Technique Classes: Intermediate Jazz Dance I *Units: 1*
- DANC 2172 - Intermediate Technique Classes: Intermediate Jazz Dance II *Units: 1*
- DANC 2173 - Intermediate Technique Classes: Intermediate Jazz Dance III *Units: 1*
- DANC 2191 - Intermediate Technique Classes: Intermediate Ballet Dance I *Units: 1*
- DANC 2192 - Intermediate Technique Classes: Intermediate Ballet Dance II *Units: 1*
- DANC 2193 - Intermediate Technique Classes: Intermediate Ballet Dance III *Units: 1*

One course (2 units) from:

- THEA 2062 - Musical Theatre Show Choir B *Units: 2*
- THEA 2063 - Musical Theatre Show Choir C *Units: 2*

Three technology and design courses (3 units):

- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*

Technology & Design Emphasis

Two (2) units from:

- DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I *Units: 1*
- DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II *Units: 1*
- DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III *Units: 1*
- DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I *Units: 1*
- DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II *Units: 1*
- DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III *Units: 1*

Five (5) courses from technology & design:

- THEA 2421 - Fundamental Backstage Technology: Wood Scenery: Walls and Levels *Units: 1*
- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*
- THEA 2425 - Fundamental Backstage Technology: Stage Effects *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*
- THEA 2429 - Fundamental Backstage Technology: Practical Drafting and Model Building *Units: 1*
- THEA 2430 - Fundamental Backstage Technology: Practical Make-up *Units: 1*

And the following 3 units:

- THEA 1020 - Discover Acting *Units: 3*

Upper Division Required Core Courses

Complete the following 30 units or required courses:

- DANC 3251 - Movement Analysis *Units: 4*
- DANC 3252 - Dance Through the Ages *Units: 4*
- THEA 3253 - Theatre Through the Ages *Units: 4*
- THEA 3254 - Scenery, Lights, and Sound Concepts *Units: 4*
- THEA 3255 - Costumes and Makeup Concepts *Units: 4*
- THEA 3256 - Directing: Text to Stage *Units: 3*
- THEA 3257 - Design for Stage *Units: 3*
- Plus one (1) additional lower division THEA or DANC course (see the filter TYPE: Subject Area Course List under Course Descriptions)

Core Culmination and Assessment Courses

Each student must complete the following 10 units. A Senior Culmination Project is to include either a performance project in the Senior Festival, a written thesis, or a substantial internship. Students may substitute internship credit or thesis-related Independent Study credit for their Senior Festival courses.

- THEA 4151 - Senior Festival Preproduction *Units: 3*
- THEA 4152 - Senior Festival Performance *Units: 3*
- THEA 4155 - Career Management Issues in Theatre Arts *Units: 4*

Option Requirements

To complete the Theatre B.A. degree additional units are required from one of the following:

- Theatre Arts, B.A. (with Advanced Electives) non-option
- Theatre Arts, Acting Option, B.A.
- Theatre Arts, Dance Option, B.A.
- Theatre Arts, Directing and Creative Vision Option, B.A.
- Theatre Arts, Musical Theatre Option, B.A.
- Theatre Arts, Technology and Design Option, B.A.

Technology and Design Option (39-41 units)

Total major units with this option: 95-97.

Foundational Technique (2 units)

- Complete two additional Technology and Design courses, numbered 2999 and below.

Advanced Electives (37-39 units)

Theatre History and Literature Elective (8 units)

- One additional course (4 units) in Theatre History and Literature (or) Dance History.
- Complete a second course in Theatre History and Literature (4 units).

Advanced Technique Elective (14 units)

- Two additional courses (6 units) in advanced technique. Take courses numbered 3000 or above in ONE area of emphasis: Acting, Dance, or Technology and Design.
- Complete two additional Technology and Design courses, numbered 3000 or above (8 units).

Production and Performance Elective (15-17 units)

- At least three Production and Performance courses (9 units), numbered 3000 and above, covering at least three show assignments during the final two years.
- Complete two additional Production and Performance assignments. Selections must be approved by the chair and advisor in advance (6-8 units).

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

Dance Minor

Department & Faculty Information

Minor Requirements (34 units)

A. Fundamental Courses (6 units)

Complete one course from the following:

- DANC 2020 - Rhythm and Music for Dance *Units: 2*
- DANC 2341 - Improvisation in Art and Life *Units: 2*
- DANC 2342 - Integrating Theatre and Dance *Units: 2*
- DANC 2343 - Body and Mind Training for Performance *Units: 2*
- DANC 2344 - Site Specific Performance *Units: 2*

Complete four courses from the following:

- THEA 2421 - Fundamental Backstage Technology: Wood Scenery: Walls and Levels *Units: 1*
- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*
- THEA 2425 - Fundamental Backstage Technology: Stage Effects *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*
- THEA 2429 - Fundamental Backstage Technology: Practical Drafting and Model Building *Units: 1*
- THEA 2430 - Fundamental Backstage Technology: Practical Make-up *Units: 1*

B. Core courses (18 units)

Complete twelve units from the following:

- One lower division course with consent of advisor *Units: 4*
- DANC 3251 - Movement Analysis *Units: 4*

- DANC 3252 - Dance Through the Ages *Units: 4*
- or*
- DANC 4201 - Dance in Modern Society *Units: 4*

Complete at least six units of electives from the following by advisement

Do not repeat a course applied to the Fundamental Courses area above.

- DANC 2020 - Rhythm and Music for Dance *Units: 2*
- DANC 2341 - Improvisation in Art and Life *Units: 2*
- DANC 2342 - Integrating Theatre and Dance *Units: 2*
- DANC 2343 - Body and Mind Training for Performance *Units: 2*
- DANC 2344 - Site Specific Performance *Units: 2*
- DANC 3330 - The Digital Stage: Dance on Camera *Units: 4*
- DANC 3451 - Dance Ensemble A *Units: 3*
- DANC 3452 - Dance Ensemble B *Units: 3*
- DANC 3453 - Dance Ensemble C *Units: 3*
- DANC 3454 - Dance Ensemble D *Units: 3*
- DANC 3455 - Dance Ensemble E *Units: 3*
- DANC 3456 - Dance Ensemble F *Units: 3*

C. Technique Competencies (6 units)

Students must take a minimum of five courses, all with a minimum grade of B, to demonstrate competency in two of the following techniques at the beginning and intermediate level, as well as one of the same techniques at the advanced level: hip hop, modern, jazz, and ballet. At least one advanced course must be taken at CSUEB.

D. Performance and Production Courses (4 units)

Two production assignments required. For each assignment, enroll for a minimum of two (2) units from Theatre Production Activity courses by advisement.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth

requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Theatre Minor

Department & Faculty Information

Minor Requirements (34 units)

Fundamental Courses (9 units)

- THEA 2035 - Fundamentals of Acting *Units: 3*

Take six courses from the following

- Take six courses from the following. Transfers may substitute one course of up to three units on a course-for-units basis *Units: 6* THEA 2421-2430 Fundamental Backstage Technology (1 each)
- THEA 2421 - Fundamental Backstage Technology: Wood Scenery: Walls and Levels *Units: 1*
- THEA 2422 - Fundamental Backstage Technology: Costume Technique *Units: 1*
- THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus *Units: 1*
- THEA 2424 - Fundamental Backstage Technology: Sound: Recording *Units: 1*
- THEA 2425 - Fundamental Backstage Technology: Stage Effects *Units: 1*
- THEA 2428 - Fundamental Backstage Technology: Sound: PA *Units: 1*
- THEA 2429 - Fundamental Backstage Technology: Practical Drafting and Model Building *Units: 1*
- THEA 2430 - Fundamental Backstage Technology: Practical Make-up *Units: 1*

Core Courses (19 units)

- One introductory course with consent of advisor *Units: 4*
- THEA 3253 - Theatre Through the Ages *Units: 4*
- THEA 3254 - Scenery, Lights, and Sound Concepts *Units: 4*
- THEA 3255 - Costumes and Makeup Concepts *Units: 4*
- THEA 3256 - Directing: Text to Stage *Units: 3*

Performance and Production Courses (minimum 6 units)

Three production assignments/courses required. For each assignment, enroll for a minimum of two (2) units each from Theatre Production Activity courses by advisement. Transfers may apply only one production course taken at another institution.

Subject Area Course Lists (SACL)

Four-year CSUEB students should take any THEA or DANC course in a First Year General Education Cluster. For a list of all SACL designated courses use the Course Description link below or see your department advisor.

Transfer students may petition the Chair to substitute a course with the following types of content:

- a theatre literature and history course with required reading of at least six plays,
- a performance appreciation course that required attendance and a review of at least four shows,
- a script analysis course, or a creative methods course (specifically any course that articulates with DANC 1200).

Transfer students may also meet the requirement with one of the courses approved for four-year students. Substitutes require advanced approval of the Chair.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

General Education: Interdisciplinary Studies and Special Certificates

Offices of Academic Programs and Graduate Studies

General Education Office: Student Services and Administration (SA) building, 1st Floor, Phone: (510) 885-2941

Interdisciplinary Studies and Special Certificates Office: Student Services and Administration (SA) building, 4th Floor, Ste 4500

Phone: (510) 885-3716

Important Notice: The Interdisciplinary Studies and Special Certificates programs are currently undergoing review. Students interested in pursuing the Interdisciplinary Studies B.A. or B.S. or a Special Certificate should contact Linda Beebe in the General Education Office, SA 1500 for forms and information.

Faculty

Nancy M. Thompson (History), Ph.D. Stanford University (Director, Undergraduate Studies and General Education)

Jennifer L. Eagan, Ph.D. Duquesne University (Coordinator, Interdisciplinary Studies and Special Certificates)

General Information

GS courses are interdisciplinary courses not housed in any department or college. They are primarily designed for General Education purposes.

About the Program

Bachelor of Arts

Interdisciplinary Studies, B.A.

Department & Faculty Information

Interdisciplinary Studies (B.A./B.S.) 52-54 units

Major Requirements

Note: The programs are currently undergoing review. Students interested in pursuing the Interdisciplinary Studies B.A. or B.S. or a Special Certificate should contact Linda Beebe in the General Education Office, SA 1500 for forms and information.

The university offers both the B.A. and B.S. degrees with an Interdisciplinary Studies Major. There are no clearly defined differences between the two degrees, although B.S. degrees tend to be applied programs, while the B.A. is usually considered a liberal arts and social sciences degree. Normally, the type of degree awarded for an Interdisciplinary Studies Major reflects the degrees offered by the involved departments. To be eligible for an Interdisciplinary Studies Major, a student must have a cumulative GPA of at least 2.50. An Interdisciplinary Studies Major must be a coherent program organized around a sound academic theme. The title of an Interdisciplinary Studies Major should be short (three to five words) and should describe the central academic theme of the program, not the student's career objectives unless the two coincide.

An Interdisciplinary Studies Major must be fully approved before the student has fewer than 40 quarter units to complete the major and 60 for the degree. An Interdisciplinary Studies Major must contain at least 52 quarter units for the B.A. or 54 quarter units for the B.S. degree. The maximum number of quarter units for the Interdisciplinary Studies Major is 93 units for either the B.A. or the B.S., of which at least 36 are upper division (junior/senior level). Coursework in at least two different disciplines is required. The B.A. and B.S. degrees with an Interdisciplinary Studies Major require a total of at least 180 units.

Courses in the Interdisciplinary Studies Major are not applicable to the General Education-Breadth Requirements. (However, previously completed transfer evaluations will not be reevaluated). A student can take courses for G.E. purposes in departments involved in the major. However, any individual course used for G.E. cannot also be used in the major, except for courses which are exempt under the G.E. policy. (See the B.A./ B.S. Degree Requirements chapter.). Only one course from a department involved in the major can be applied to G.E.

Procedure

A student who contemplates developing an Interdisciplinary Studies Major must have an overall and CSUEB grade point average of at least 2.50. Forethought and planning will need to precede any formal action. You may make an appointment to discuss all the necessary steps for getting your Interdisciplinary Studies major approved by emailing the Office of General Education at vicki.cosgrove@csueastbay.edu or call (510) 885-2941.

The prospective Interdisciplinary Studies Major student must prepare a one page prospectus of at least 200 words describing the theme or central academic focus of the proposed program (including the departments to be involved), the reasons why the objective cannot be fulfilled through a regular major, the academic and experiential background the student will bring to the program, the occupational goals of the student in relation to the proposal, the approximate time frame for completion of the major and the degree, and other pertinent information. A sample prospectus for a hypothetical Interdisciplinary Studies Major will be given to the student by the Interdisciplinary Studies Coordinator when they meet at the information appointment, which starts the process towards an approved Interdisciplinary Studies major. The student must also contact three faculty advisors in the involved departments, secure their support, and nominate them as his/her Interdisciplinary Studies Major committee. (One of these faculty advisors should be designated as chair of the committee.)

The prospectus, including the names of the three faculty advisors (and their departments), must be submitted to the Interdisciplinary Studies Major Coordinator in the Office of General Education before the student has fewer than 40 units left to complete in the proposed major and 60 units in the degree.

If the proposal is found academically sound and logistically feasible by the Interdisciplinary Studies Major Coordinator will forward copies of it to the proposed faculty committee members along with an explanation of the Interdisciplinary Studies Major policies and procedures, copies of the student's transcripts, and a form for development and approval of the specific program of courses.

The three-person committee and the student must meet at a mutually acceptable time to design the program (i.e. to prepare the list of required and elective courses). When this is done, the form is completed, signatures of approval are affixed, and it is returned to the Interdisciplinary Studies Major Coordinator by the chair of the student's faculty committee. The Interdisciplinary Studies Major Coordinator circulates the proposal to the deans of the involved colleges for commentary. After reviewing any comments, the Senior Director of Undergraduate Studies and General Education will act on the proposal. If it is approved, a final copy is prepared and the coordinator and the student sign it. When the student comes in to sign and receive a copy, a "Change of Major/Minor/Option" form must also be signed. The student will also be informed of the college from which he/she will graduate.

General Education

All students must also complete the general education-breadth and other graduation requirements for the baccalaureate degree. Normally, courses used for the Interdisciplinary Studies Major cannot be used for G.E., but transfer G.E. evaluations will not be redone. Check your catalog or see an advisor at the University Advisement Center for more information.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Bachelor of Science

Interdisciplinary Studies, B.S.

Department & Faculty Information

Interdisciplinary Studies (B.A./B.S.) 52-54 units

Major Requirements

Note: The programs are currently undergoing review. Students interested in pursuing the Interdisciplinary Studies B.A. or B.S. or a Special Certificate should contact Linda Beebe in the General Education Office, SA 1500 for forms and information.

The university offers both the B.A. and B.S. degrees with an Interdisciplinary Studies Major. There are no clearly defined differences between the two degrees, although B.S. degrees tend to be applied programs, while the B.A. is usually considered a liberal arts and social sciences degree. Normally, the type of degree awarded for an Interdisciplinary Studies Major reflects the degrees offered by the involved departments. To be eligible for an Interdisciplinary Studies Major, a student must have a cumulative GPA of at least 2.50. An Interdisciplinary Studies Major must be a coherent program organized around a sound academic theme. The title of an Interdisciplinary Studies Major should be short (three to five words) and should describe the central academic theme of the program, not the student's career objectives unless the two coincide.

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Courses in the Interdisciplinary Studies Major are not applicable to the General Education-Breadth Requirements. (However, previously completed transfer evaluations will not be reevaluated). A student can take courses for G.E. purposes in departments involved in the major. However, any individual course used for G.E. cannot also be used in the major, except for courses which are exempt under the G.E. policy. (See the B.A./ B.S. Degree Requirements chapter.). Only one course from a department involved in the major can be applied to G.E.

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A student who contemplates developing an Interdisciplinary Studies Major must have an overall and CSUEB grade point average of at least 2.50. Forethought and planning will need to precede any formal action. You may make an appointment to discuss all the necessary steps for getting your Interdisciplinary Studies major approved by emailing the Office of General Education at vicki.cosgrove@csueastbay.edu or call (510) 885-2941.

The prospective Interdisciplinary Studies Major student must prepare a one page prospectus of at least 200 words describing the theme or central academic focus of the proposed program (including the departments to be involved), the reasons why the objective cannot be fulfilled through a regular major, the academic and experiential background the student will bring to the program, the occupational goals of the student in relation to the proposal, the approximate time frame for completion of the major and the degree, and other pertinent information. A sample prospectus for a hypothetical Interdisciplinary Studies Major will be given to the student by the Interdisciplinary Studies Coordinator when they meet at the information appointment, which starts the process towards an approved Interdisciplinary Studies major. The student must also contact three faculty advisors in the involved departments, secure their support, and nominate them as his/her Interdisciplinary Studies Major committee. (One of these faculty advisors should be designated as chair of the committee.)

The prospectus, including the names of the three faculty advisors (and their departments), must be submitted to the Interdisciplinary Studies Major Coordinator in the Office of General Education before the student has fewer than 40 units left to complete in the proposed major and 60 units in the degree.

If the proposal is found academically sound and logistically feasible by the Interdisciplinary Studies Major Coordinator will forward copies of it to the proposed faculty committee members along with an explanation of the Interdisciplinary Studies Major policies and procedures, copies of the student's transcripts, and a form for development and approval of the specific program of courses.

The three-person committee and the student must meet at a mutually acceptable time to design the program (i.e. to prepare the list of required and elective courses). When this is done, the form is completed, signatures of approval are affixed, and it is returned to the Interdisciplinary Studies Major Coordinator by the chair of the student's faculty committee. The Interdisciplinary Studies Major Coordinator circulates the proposal to the deans of the involved colleges for commentary. After reviewing any comments, the Senior Director of Undergraduate Studies and General Education will act on the proposal. If it is approved, a final copy is prepared and the coordinator and the student sign it. When the student comes in to sign and receive a copy, a "Change of Major/Minor/Option" form must also be signed. The student will also be informed of the college from which he/she will graduate.

General Education

All students must also complete the general education-breadth and other graduation requirements for the baccalaureate degree. Normally, courses used for the Interdisciplinary Studies Major cannot be used for G.E., but transfer G.E. evaluations will not be redone. Check your catalog or see an advisor at the University Advisement Center for more information.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Certificate (Undergraduate) Program

Interdisciplinary Studies Special Certificate

Department & Faculty Information

The purpose of a Special Certificate is to give the student an opportunity to design in advance, with university approval, a program that will be certified upon completion. To obtain an undergraduate Special Certificate, an undergraduate or graduate student must complete a program of at least 20 quarter-units in upper-division courses with a GPA of 2.00. The program must provide a logical and coherent pattern of

preparation for a limited objective. The title of the proposed certificate should carry no connotation of meeting a licensing requirement for professional practice. The student's proposed program must be developed with, and approved by, a faculty member knowledgeable in the field being certified.

Note: To obtain a graduate Special Certificate, a graduate student must possess a bachelor's degree from an accredited institution and complete at least 20 quarter units, of which at least half must be at the graduate 6000-level, with a minimum GPA of 3.00. See the Interdisciplinary Studies Majors' chapters in the section of this catalog for additional information.

Procedure

The student develops a proposed program with the advice and approval of a faculty member knowledgeable in the field of study. The completed "Undergraduate/Graduate Special Certificate Proposal," with advisor and student approval, is forwarded by the advisor to the dean of the college in which the preponderance of courses will be taken. If the dean approves, he or she signs and sends the proposal to the Interdisciplinary Studies Major Coordinator in the Office of General Education. The Interdisciplinary Studies Major Coordinator then sends a copy of the proposal to each of the other three college deans. The deans have 10 working days to enter an objection. If none is received and the Senior Director of Undergraduate Studies and General Education judges the proposal to be sound, the program will be approved. If any college dean objects, he or she must file written objections with the Interdisciplinary Studies Major Coordinator within the 10 days. These will be considered by the Senior Director in deciding whether or not to approve the program. The student is notified in writing by the Interdisciplinary Studies Major Coordinator about the final action on his/her proposal. A copy of an approved program is filed in the student's online file and in the Interdisciplinary Studies Major Coordinator's office. Upon completion of the Special Certificate program, the student applies to the Registrar and pays the fee to receive the certificate.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

International Studies Program

The Department Office is located on the 2nd Floor of the Robinson Hall building, Room 220

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3193

Faculty

Professor Emerita

Laurie Price (Anthropology, Geography and Environmental Studies), Ph.D. University of North Carolina at Chapel Hill

Professor

Michael D. Lee (Anthropology, Geography and Environmental Studies), Ph.D. London School of Economics (England)

Associate Professors

Ekin Alakent (Management), Ph.D. University of Texas at Dallas

Vahid Fozdar (History), Ph.D. University of California, Berkeley

Maria C. Ortuoste (Political Science), Ph.D. Arizona State University

Marcelo Paz (Modern Languages and Literatures), Ph.D. University of Cincinnati

Andrew Wong (Anthropology, Geography and Environmental Studies), Ph.D. Stanford University

Assistant Professor

Sukari Ivester (Sociology and Social Services), Ph.D. University of Chicago

Interim Director:

Andrew D. Wong

Program Statement

The International Studies major consists of an integrated group of courses reflecting international aspects of various disciplines. It is designed to provide the student with a broad base of understanding of the interrelationship of the world community, while at the same time providing the opportunity to specialize in an area of interest. A minor in International Studies is also offered.

The International Studies major consists of a lower division requirement of twelve (12) units in Economics and Geography/Environmental Studies and, optionally, Anthropology, plus a foreign language requirement. The upper division requirements include a methods course, a twentieth century History course, and three INTS courses (an introductory upper division course, a senior seminar, and an international field experience). The student will complete the major with sixteen (16) units of international coursework with a particular emphasis and twelve (12) units selected from a list of electives.

Bachelor of Arts

International Studies, B.A.

Department & Faculty Information

International Studies B.A. 180 units

Program Description

The International Studies major consists of an integrated group of courses reflecting international aspects of various disciplines. It is designed to provide the student with a broad base of understanding of the interrelationship of the world community, while at the same time providing the opportunity to specialize in an area of interest. A minor in International Studies is also offered.

The International Studies major consists of a lower division requirement of twelve (12) units in Economics and Geography/Environmental Studies and, optionally, Anthropology, plus a foreign language requirement. The upper division requirements include a methods course, a twentieth century History course, and three INTS courses (an introductory upper division course, a senior seminar, and an international field experience). The student will complete the major with sixteen (16) units of international coursework with a particular emphasis and twelve (12) units selected from a list of electives.

Student Learning Outcomes

Students graduating with a B.A. in International Studies from Cal State East Bay will be able to:

- 1. demonstrate cross-cultural understanding and competencies, including second language acquisition.
- 2. demonstrate an understanding of global political, economic, cultural, and geographic systems including their interconnections and sustainability.
- 3. demonstrate the ability to research, write and communicate orally about complex international issues both individually and through collaborative learning and teamwork.
- 4. demonstrate an understanding of the theory and practice of civic engagement, both locally and globally.
- 5. articulate personal career goals, understand the variety of career opportunities related to international studies, and prepare for their chosen career(s).

Features

The university encourages firsthand experience abroad. INTS 4100 (International Field Work) is designed to afford such an opportunity. Optimally the student will elect to complete the internship, either paid or voluntary, in a foreign country. The University recognizes that this may not always be possible and therefore accepts the completion of the internship locally if a substantial portion of the work experience is internationally related. The student may also elect to fulfill the international work experience requirement by completing a course of study through the CSU International Programs or a recognized quarter, semester, or summer program abroad. Any such activity must be approved by an International Studies advisor before being undertaken.

Career Opportunities

International Business

International Organizations

Federal Government

Diplomacy

Tourism

Teaching

Education and Cultural Exchange Programs

Journalism

Law

Translation

Local services to foreign language speakers

Major Requirements (B.A.) 58-85 units

Because requirements are subject to change, consult the International Studies Director for clarification and interpretation of your major requirements. The major consists of 58-85 units; the B.A. degree requires a total of 180 units.

- The core major consists of 58-85 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Modern Language Requirements (0-24 units)

Oral and written proficiency in a modern foreign language equivalent to two full years of university-level studies. The requirement can be fulfilled by the recent completion of the third quarter of intermediate language at Cal State East Bay or by an examination offered by the Department of Modern Languages and Literatures measuring oral and written proficiency at that level.

Lower Division Core (12 units)

- GEOG 2310 - Economic and Resource Geography *Units: 4*

Select one from the following:

- ANTH 1300 - Introduction to Cultural Anthropology *Units: 4*
- GEOG 2300 - Cultural Geography *Units: 4*

Select one from the following:

- ECON 1000 - Economics of Public Issues *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*

Upper Division Core (18-21 units)

In order to fulfill this requirement, any experiential activity or course of study in a foreign country must be pre-approved by the International Studies Director.

- HIST 3017 - The Twentieth Century *Units: 4*
- INTS 3100 - Global Systems *Units: 4*
- INTS 4100 - International Field Work *Units: 2-4 (or an approved course of study in a foreign country)*
- INTS 4500 - Senior Seminar *Units: 4*

Select one methods course from the following list:

- ANTH 4310 - Field Course in Ethnography *Units: 5*
- COMM 3200 - Introduction to Research Methods in Communication *Units: 4*
- ECON 4400 - Introduction to Econometrics *Units: 4*
- HIST 3010 - Historical Writing *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*
- PHIL 3321 - Philosophy of the Human Sciences *Units: 4*
- POSC 3300 - Voting and Public Opinion *Units: 4*
- PSYC 2020 - Methods of Investigation in Psychology *Units: 4*
- SOC 3000 - Introduction to Sociological Research *Units: 4*
- SOC 4111 - Methods of Sociological Research I *Units: 4*
- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*
- STAT 4610 - Introduction to Nonparametric Statistical Methods *Units: 4*

Choose an Area of Emphasis (16 units)

Emphasis courses: 4 courses (16 units) to be chosen with the approval of the International Studies Director in either:

- a discipline area (example: Anthropology, Economics, History);
- a regional area (example: Asia, Europe, Latin America, Middle East); or
- a topic area (example: international business, international organizations and law, arms control, economic development, environmental issues, cross-cultural studies, migration). All courses selected should be internationally relevant.

Elective Courses (12 units)

Select 12-units from the following with no more than 2 courses in any one discipline:

- ANTH 3000 - Anthropology in the Modern World *Units: 4*
- FIN 4375 - International Business Finance *Units: 4*
- MGMT 4670 - Multinational Business *Units: 4*
- MKTG 4470 - International Marketing *Units: 4*
- SOC 3431 - Global Society *Units: 4*

- Or any upper division course with an international focus not listed above but approved by the International Studies Director.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Minor

International Studies Minor

Department & Faculty Information

Minor Requirements (28-40 units)

The minor consists of 28-40 units.

I. Lower Division (8-20 units)

A. Twelve (12) units of a modern foreign language or the equivalent

Twelve (12) units of a modern foreign language or the equivalent as determined by examination. The language, when possible, should be coordinated with the student's other coursework in the minor. It is strongly recommended that a student achieve a higher level of proficiency in a foreign language through courses in language, culture, or literature.

B. Eight (8) units selected from:

- ANTH 1300 - Introduction to Cultural Anthropology *Units: 4*
or
- GEOG 2300 - Cultural Geography *Units: 4*
- ENVT 2000 - Introduction to Environmental Studies *Units: 4*
or
- GEOG 2310 - Economic and Resource Geography *Units: 4*
- POSC 1500 - Conflict in World Politics *Units: 4*

- ECON 1000 - Economics of Public Issues *Units: 4*
or
- ECON 2301 - Principles of Microeconomics *Units: 4*
or
- ECON 2302 - Principles of Macroeconomics *Units: 4*

II. Upper Division (20 units)

A. Global Systems

- INTS 3100 - Global Systems *Units: 4*

B. Sixteen (16) units of upper division international course work

Sixteen (16) units of upper division international course work from the College of Letters, Arts, and Social Sciences (CLASS) or the College of Business and Economics, selected with the approval of the International Studies Director. No more than eight (8) units may be taken in any one department; a minimum of eight (8) units must be taken in CLASS.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Liberal Studies Program

The Program's Office is located in the *Student Services Center of the College of Letters, Arts, and Social Sciences*, located at the following two locations:

a) on the 1st Floor of the Music Building, Room MB 1503, and

b) on the 3rd floor of the Meiklejohn Hall, Room MI 3037.

Office Hours: 8:00 am - 5:00 pm

Office Phones:

510-885-4874

510-885-2144

510-885-2822

Faculty

Professor

Jiansheng Guo (Human Development and Women's Studies) (Interim Director), Ph.D. University of California, Berkeley

Program Statement

The Liberal Studies Major aims to provide a rich educational experience through coursework in a broad range of academic disciplines. The student is guaranteed a breadth of academic experience, as well as depth in a single field. The Bachelors Plus Early Pathway (BPEP) Liberal Studies/Credential Program offers selected students interested in a teaching career an opportunity for concurrent subject matter and professional preparation. See the "Bachelors Plus Early Pathway Liberal Studies/Credential Program" section later in this chapter.

The broad-based, interdisciplinary nature of Liberal Studies provides a knowledge base and the communication and analytical skills appropriate to many careers and occupations. Hence, the Liberal Studies major is excellent preparation not only for teaching, but for graduate work, for law school, and for employment in business and government.

Bachelor of Arts

Liberal Studies, Liberal Arts Option, B.A

Department & Faculty Information

Liberal Studies (B.A.) 180 units

Program Description

The Liberal Studies Major aims to provide a rich educational experience through coursework in a broad range of academic disciplines. The student is guaranteed a breadth of academic experience, as well as depth in a single field. The Bachelors Plus: Early Pathway Liberal Studies/Credential Program (BPEP) offers selected students interested in a teaching career an opportunity for concurrent subject

matter and professional preparation. Also, see the **Multiple Subject Credential: Blended Liberal Studies Major (Bachelor's Plus Early Pathway)** for additional requirements.

The broad-based, interdisciplinary nature of Liberal Studies provides a knowledge base and the communication and analytical skills appropriate to many careers and occupations. Hence, the Liberal Studies major is excellent preparation not only for teaching, but for graduate work, for law school, and for employment in business and government.

Student Learning Outcomes

Students graduating with a B.A. in Liberal Studies from Cal State East Bay will be able to:

- demonstrate solid understanding of major contemporary global issues about individuals, society, and nature, by integrating interdisciplinary knowledge of humanities, social science, and natural science, with more in-depth understanding of one specialized subject area or discipline;
- apply critical methods of different disciplines to critically thinking about these issues;
- communicate ideas clearly and persuasively in speech and writing;
- work with others in teams collaboratively and productively, showing sensitivity and respect for others, and readiness to learn from others;
- demonstrate commitment to promoting social justice, diversity, democratic values, and sustainable environment.

Career Opportunities

- Administrator
- Business Executive
- Civil Servant
- Customer Service Representative
- Foreign Service Officer
- Human Resources Administrator
- Journalist
- Lawyer
- Manager
- Non-profit and Social Advocacy Organizations
- Personnel Representative
- Salesperson
- Social and Human Services
- Teacher (K-6, Pre-K, Early Childhood)
- Writer

Features

The primary function of the Liberal Studies Office, housed in the CLASS (College of Letters, Arts, and Social Sciences) Student Services Center, is to provide timely and effective advising for completing the major. Friendly, experienced office staff, including four full-time academic advisors, are available to help at every step. Advising is available through individual appointments, either prescheduled, "drop-in", or online.

Although the Liberal Studies Teacher Preparation Degree option is a multiple subject matter preparation program, there is no longer an exemption from the multiple subject test, which is now the CSET or "California Subject Exam for Teachers". The Liberal Studies Teacher Preparation Degree option is aligned with Content Standards for K-6 curriculum and the CSET, and is, therefore, the best preparation for future K-6 teachers.

The Liberal Studies major is offered both day and evening, and on both the Hayward and Concord Campuses. However, Concord Campus and evening-only students may not find a full range of courses and options available to them.

Liberal Studies is also one of the majors available through the Cal State East Bay Program for Accelerated College Education (PACE). For information on PACE, see the PACE chapter in the undergraduate section of this catalog or call the PACE office at (510) 885-PACE (7223).

Major Requirements (B.A.) 76-143 units

The B.A. degree requires a minimum of 180 units.

- The Core Requirements of the major consist of 8 units
 - The Option Requirements of the major consist of 68 - 135 units
 - The Liberal Arts Option consists of 68 - 76 units
 - The Teacher Preparation Option consists of 123 - 135 units
 - GE/USHG/UWS breadth consists of 84 units (some courses may be double counted for different requirements - see your advisor)
 - *Free Electives (if needed) will make up the remainder units to reach 180 minimum total units (see your advisor)*
- Note: Many courses in the Liberal Studies degree satisfy GE breadth requirements. Students must be certain to meet with a GE advisor to select courses satisfying GE requirements.*

Core Courses (8 units)

All Liberal Studies students must complete the following courses.

- HUM 2010 - Introduction to Liberal Studies *Units: 4*
- HUM 4020 - Senior Seminar *Units: 4*

Degree Option Requirements

The Liberal Studies major offers two options for degree completion. Majors must choose one of the following options:

- Liberal Studies, Teacher Preparation Option B.A. (also including BPEP Pathway)
- Liberal Studies, Liberal Arts Option, B.A

Liberal Arts Option (68-76 units)

Students selecting the Liberal Arts Degree Option must complete the following requirements:

Liberal Arts Electives 48-units

Through consultation with Liberal Studies advisors, select 12 units of electives from each of the four areas listed below. At least 32 of the combined units must be from upper-division courses numbered 3000 or higher. Courses used to satisfy Liberal Arts Option electives **MUST** be approved by a Liberal Studies advisor. No more than two (2) courses from a single discipline may be taken within a single area:

Social Sciences

- Anthropology
- Communications
- Criminal Justice Administration
- Economics
- Environmental Studies
- Geography
- History
- Political Science
- Psychology
- Sociology

Natural Sciences / Mathematics

- Biology
- Chemistry
- Environmental Science
- Geology
- Math
- Physics
- Statistics

Humanities

- Art
- English
- Modern Languages
- Music
- Philosophy
- Theater / Dance

Interdisciplinary Studies

- Ethnic Studies
- Health Sciences
- Human Development
- International Studies
- Kinesiology
- Latin American Studies
- Recreation
- Teacher Education
- Women's Studies

Depth-of-Study (DOS) Areas 16-28 units

The DOS requirement may be satisfied by completing one (1) of the following two (2) ways:

- Complete one (1) of the following **five** preapproved areas listed below. In each of the areas, at least 16 units (for Teacher Preparation Option) or 20 units (for Liberal Art Option) must be unique to the DOS and may not be counted in any other areas of the Liberal Studies Major.
- In consultation with a Liberal Studies advisor, select at least 16 upper division units (for Teacher Preparation Option) or 20 upper division units (for Liberal Art Option) from any disciplines, except for courses with the GS (General Studies) prefix. The 16 units or 20 units must be unique among the courses counted to meet the Liberal Studies major requirements and may not be counted in any other areas of the Liberal Studies Major.

Childhood Studies Area (20 units)

Choose one (1) course from EACH group for 20 units:

Group 1

- HDEV 3301 - Child Development *Units: 4*
- HDEV 4150 - Children in Families and Communities *Units: 4*

Group 2

- HDEV 4110 - Child Cognitive Development *Units: 4*
- HDEV 4130 - The Social Development of Children *Units: 4*

Group 3

- DANC 3235 - Dance for Children *Units: 4*
- ENGL 4740 - History of Children's Literature *Units: 4*
- TED 4320 - Art Skills for Teachers *Units: 4*
- THEA 3650 - Dramatic Activities for Children *Units: 4*

Group 4

- HDEV 4140 - Theories of Childhood *Units: 4*
- SOC 3410 - Sociology of the Family *Units: 4*

Group 5

- KIN 4004 - Elementary School Physical Education *Units: 4*
- PHIL 3701 - Philosophy of Education *Units: 4*
- PSYC 4440 - Child Psychopathology *Units: 4*
- TED 5351 - Psychological Foundations of Education and Planning for Instruction *Units: 4*

Foundational Math Area (25 units)

Complete the following 25 units:

- MATH 1130 - College Algebra *Units: 4*

- MATH 2011 - Number Systems *Units: 4*
- MATH 4012 - Geometry and Measurement *Units: 4*
- MATH 4013 - Statistics, Data Analysis, and Probability *Units: 4*
- MATH 4030 - Advanced Study of School Mathematics *Units: 4*
- TED 5454 - Math I - Instructional Methods in Single Subject Classroom *Units: 3*
- TED 5455 - Math II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction *Units: 2*

Foundational Science Area (16-20 units)

Liberal Arts option students: Complete 20 units from any of the following courses.

Teacher Preparation option students: Complete 16 units from any of the following courses.

- BIOL 3011 - Foundational Biology *Units: 4*
- BIOL 3012 - Foundational Biology Laboratory *Units: 1*
- BIOL 3080 - Biology Hands-On Laboratory *Units: 2*
- CHEM 3011 - Foundational Chemistry *Units: 4*
- CHEM 3012 - Foundational Chemistry Laboratory *Units: 1*
- CHEM 3080 - Chemistry Hands-On Laboratory *Units: 2*
- GEOL 3011 - Foundational Earth Science *Units: 4*
- GEOL 3012 - Foundational Earth Science Laboratory *Units: 1*
- GEOL 3080 - Earth Science Hands-On Laboratory *Units: 2*
- PHYS 3011 - Foundational Physics *Units: 4*
- PHYS 3012 - Foundational Physics Laboratory *Units: 1*
- PHYS 3080 - Physics Hands-on Laboratory *Units: 2*

Special Education Area (25-28 units)

Complete 25-28 units from the following areas:

Complete the following 5 courses for 19 units:

- EPSY 5021 - Introduction to Educating all Students in Diverse Classrooms *Units: 4*
- EPSY 5125 - Educational Practices: Mild-Moderate Disabilities *Units: 4*
- EPSY 5126 - Special Education Law and Program Design *Units: 4*
- EPSY 5136 - Educational Practices: Moderate-Severe Disabilities *Units: 4*
- TED 3001 - Exploring Education *Units: 3 (or 45 hours of documented experience in a special education setting)*

Complete any 2 courses from the groups below for 6-9 units:

The 2 courses must be from two different groups.

Group 1

- SPPA 3852 - Speech, Language and Communication Development Across the Lifespan *Units: 4*
- SPPA 3855 - Phonetics *Units: 4*
- SPPA 3856 - Observation of Clinical Procedures in Communicative Disorders *Units: 2*
- SPPA 3859 - Theory and Practice of Audiology I *Units: 4*
- SPPA 4861 - Hearing Assessment: Instrumentation and Behavioral *Units: 5*
- SPPA 4863 - Articulation and Phonological Disorders *Units: 4*
- SPPA 4865 - Language Disorders in Children *Units: 4*

Group 2

- DANC 3235 - Dance for Children *Units: 4*
- KIN 3305 - Structural Kinesiology *Units: 4*
- KIN 4008 - Adapted Physical Activity *Units: 4*
- REC 4600 - Recreation Therapy Documentation and Assessment *Units: 4*
- REC 4601 - Recreation Therapy Treatment and Program Planning *Units: 4*

Group 3

- HDEV 3301 - Child Development *Units: 4*
- HDEV 3800 - Human Development and Interaction *Units: 4*
- HDEV 4110 - Child Cognitive Development *Units: 4*
- HDEV 4120 - Child Language Development *Units: 4*
- HDEV 4150 - Children in Families and Communities *Units: 4*
- PSYC 4345 - Sensation and Perception *Units: 4*
- PSYC 4410 - Abnormal Psychology *Units: 4*
- PSYC 4420 - Developmental Psychology *Units: 4*
- SOC 4750 - Child Welfare *Units: 4*

Organizational Leadership Area (24 units)

Complete the following 24 units:

Complete the following course:

- MGMT 3600 - Theories of Management *Units: 4*

Select one (1) course from the following:

- MGMT 3614 - Organizational Behavior *Units: 4*
- PUAD 4830 - Organization Theory and Human Behavior *Units: 4*

Select one (1) course from the following:

- MGMT 4500 - Business, Government, and Society *Units: 4*
- POSC 3419 - Labor Policy and Law *Units: 4*

Select one (1) course from the following:

- COMM 3530 - Interviewing Principles and Practices *Units: 4*
- MKTG 3495 - Business Communication *Units: 4*

Select eight (8) upper-division units from any of the following departments:

- ECON
- FIN
- MGMT
- MKTG
- POSC

Course Descriptions

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Other Undergraduate Degree Requirements

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Liberal Studies, Teacher Preparation Option B.A. (also including BPEP Pathway)

Department & Faculty Information

Liberal Studies (B.A.) 180 units

Program Description

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The broad-based, interdisciplinary nature of Liberal Studies provides a knowledge base and the communication and analytical skills appropriate to many careers and occupations. Hence, the Liberal

Studies major is excellent preparation not only for teaching, but for graduate work, for law school, and for employment in business and government.

Student Learning Outcomes

Students graduating with a B.A. in Liberal Studies from Cal State East Bay will be able to:

- demonstrate solid understanding of major contemporary global issues about individuals, society, and nature, by integrating interdisciplinary knowledge of humanities, social science, and natural science, with more in-depth understanding of one specialized subject area or discipline;
- apply critical methods of different disciplines to critically thinking about these issues;
- communicate ideas clearly and persuasively in speech and writing;
- work with others in teams collaboratively and productively, showing sensitivity and respect for others, and readiness to learn from others;
- demonstrate commitment to promoting social justice, diversity, democratic values, and sustainable environment.

Career Opportunities

- Administrator
- Business Executive
- Civil Servant
- Customer Service Representative
- Foreign Service Officer
- Human Resources Administrator
- Journalist
- Lawyer
- Manager
- Non-profit and Social Advocacy Organizations
- Personnel Representative
- Salesperson
- Social and Human Services
- Teacher (K-6, Pre-K, Early Childhood)
- Writer

Features

The primary function of the Liberal Studies Office, housed in the CLASS (College of Letters, Arts, and Social Sciences) Student Services Center, is to provide timely and effective advising for completing the major. Friendly, experienced office staff, including four full-time academic advisors, are available to help at every step. Advising is available through individual appointments, either prescheduled, "drop-in", or online.

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Liberal Studies is also one of the majors available through the Cal State East Bay Program for Accelerated College Education (PACE). For information on PACE, see the PACE chapter in the undergraduate section of this catalog or call the PACE office at (510) 885-PACE (7223).

Major Requirements (B.A.) 76-143 units

The B.A. degree requires a minimum of 180 units.

- The Core Requirements of the major consist of 8 units
 - The Option Requirements of the major consist of 68 - 135 units
 - The Liberal Arts Option consists of 68 - 76 units
 - The Teacher Preparation Option consists of 123 - 135 units
 - GE/USHG/UWS breadth consists of 84 units (some courses may be double counted for different requirements - see your advisor)
 - *Free Electives (if needed) will make up the remainder units to reach 180 minimum total units (see your advisor)*
- Note: Many courses in the Liberal Studies degree satisfy GE breadth requirements. Students must be certain to meet with a GE advisor to select courses satisfying GE requirements.*

Core Courses (8 units)

All Liberal Studies students must complete the following courses.

- HUM 2010 - Introduction to Liberal Studies *Units: 4*
- HUM 4020 - Senior Seminar *Units: 4*

Degree Option Requirements

The Liberal Studies major offers two options for degree completion. Majors must choose one of the following options:

- Liberal Studies, Teacher Preparation Option B.A. (also including BPEP Pathway)
- Liberal Studies, Liberal Arts Option, B.A

Teacher Preparation Option (123-135 units)

Students selecting the Teacher Preparation option must complete the following two components:

Required Courses 107 units

Note: As some of these courses may also be used to satisfy GE requirements, please consult with a Liberal Studies Advisor when selecting courses to ensure the most efficient progress toward degree completion.

ARTS

Choose one (1) course from EACH group for 16 units:

Group 1

- ART 1020 - The Creative Process *Units: 4*
- TED 4325 - Arts Integration for Teachers *Units: 4*

Group 2

- THEA 3225 - Theatre Today *Units: 4*
- THEA 3650 - Dramatic Activities for Children *Units: 4*

Group 3

- MUS 3002 - What to Listen for in Music *Units: 4*

Group 4

- DANC 3235 - Dance for Children *Units: 4*

DEVELOPMENT

Choose one (1) course from EACH group for 8 units:

Group 1

- ANTH 3800 - Language and Culture *Units: 4*
- HDEV 3301 - Child Development *Units: 4*
- HDEV 4110 - Child Cognitive Development *Units: 4*
- HDEV 4120 - Child Language Development *Units: 4*

Group 2

- HDEV 4130 - The Social Development of Children *Units: 4*
- HDEV 4150 - Children in Families and Communities *Units: 4*

GRAMMAR & WRITING

Choose one (1) course from EACH group for 12 units:

Group 1

- ENGL 2005 - Grammar for Writers *Units: 4*
- ENGL 3010 - Modern English Grammar *Units: 4*

Group 2

- ENGL 2030 - Introduction to Critical Writing on Prose Fiction *Units: 4*
- ENGL 2040 - Introduction to Critical Writing on Poetry *Units: 4*

- ENGL 2050 - Introduction to Critical Writing on Drama *Units: 4*

Group 3

- ENGL 3020 - Advanced Expository Writing *Units: 4*
- Or any upper-division English Literature 4-unit course.

HISTORY

Complete the following 16 units:

- HIST 1014 - World Civilizations I *Units: 4*
- HIST 1015 - World Civilizations II *Units: 4*
- HIST 3400 - America to 1900 *Units: 4*
- HIST 3500 - History of California *Units: 4*

MATHEMATICS

Complete the following 16 units:

- MATH 2011 - Number Systems *Units: 4*
- MATH 4012 - Geometry and Measurement *Units: 4*
- MATH 4013 - Statistics, Data Analysis, and Probability *Units: 4*
- MATH 4014 - Algebra and Functions *Units: 4*

MOVEMENT & HEALTH

Complete the following 12 units:

- HSC 1100 - Health: Maintenance of Wellness *Units: 4*
- KIN 3251 - Physical Education for the Classroom Teacher: Physical Considerations *Units: 4*
- KIN 3252 - Physical Education for the Classroom Teacher: Psycho-Social Considerations *Units: 4*

SCIENCES

Complete the following 20 units:

- BIOL 1000 - Basic Concepts in Biology *Units: 5*
- CHEM 1100 - Introduction to College Chemistry *Units: 5*
- GEOL 1000 - Earth Systems Science *Units: 5*
- PHYS 1700 - Elementary Physics *Units: 4*
- PHYS 1780 - Elementary Physics Laboratory *Units: 1*

SOCIAL SCIENCES

Choose one (1) course from the following for 4 units:

- ANTH 3000 - Anthropology in the Modern World *Units: 4*
- GEOG 2300 - Cultural Geography *Units: 4*
- GEOG 3505 - Geography of California *Units: 4*

TEACHER PREPARATION

- TED 3001 - Exploring Education *Units: 3*

Depth-of-Study (DOS) Areas 16-28 units

The DOS requirement may be satisfied by completing one (1) of the following two (2) ways:

- Complete one (1) of the following **five** preapproved areas listed below. In each of the areas, at least 16 units (for Teacher Preparation Option) or 20 units (for Liberal Art Option) must be unique to the DOS and may not be counted in any other areas of the Liberal Studies Major.
- In consultation with a Liberal Studies advisor, select at least 16 upper division units (for Teacher Preparation Option) or 20 upper division units (for Liberal Art Option) from any disciplines, except for courses with the GS (General Studies) prefix. The 16 units or 20 units must be unique among the courses counted to meet the Liberal Studies major requirements and may not be counted in any other areas of the Liberal Studies Major.

Childhood Studies Area (20 units)

Choose one (1) course from EACH group for 20 units:

Group 1

- HDEV 3301 - Child Development *Units: 4*
- HDEV 4150 - Children in Families and Communities *Units: 4*

Group 2

- HDEV 4110 - Child Cognitive Development *Units: 4*
- HDEV 4130 - The Social Development of Children *Units: 4*

Group 3

- DANC 3235 - Dance for Children *Units: 4*
- ENGL 4740 - History of Children's Literature *Units: 4*
- TED 4320 - Art Skills for Teachers *Units: 4*
- THEA 3650 - Dramatic Activities for Children *Units: 4*

Group 4

- HDEV 4140 - Theories of Childhood *Units: 4*
- SOC 3410 - Sociology of the Family *Units: 4*

Group 5

- KIN 4004 - Elementary School Physical Education *Units: 4*
- PHIL 3701 - Philosophy of Education *Units: 4*
- PSYC 4440 - Child Psychopathology *Units: 4*
- TED 5351 - Psychological Foundations of Education and Planning for Instruction *Units: 4*

Foundational Math Area (25 units)

Complete the following 25 units:

- MATH 1130 - College Algebra *Units: 4*
- MATH 2011 - Number Systems *Units: 4*
- MATH 4012 - Geometry and Measurement *Units: 4*
- MATH 4013 - Statistics, Data Analysis, and Probability *Units: 4*
- MATH 4030 - Advanced Study of School Mathematics *Units: 4*
- TED 5454 - Math I - Instructional Methods in Single Subject Classroom *Units: 3*
- TED 5455 - Math II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction *Units: 2*

Foundational Science Area (16-20 units)

Liberal Arts option students: Complete 20 units from any of the following courses.

Teacher Preparation option students: Complete 16 units from any of the following courses.

- BIOL 3011 - Foundational Biology *Units: 4*
- BIOL 3012 - Foundational Biology Laboratory *Units: 1*
- BIOL 3080 - Biology Hands-On Laboratory *Units: 2*
- CHEM 3011 - Foundational Chemistry *Units: 4*
- CHEM 3012 - Foundational Chemistry Laboratory *Units: 1*
- CHEM 3080 - Chemistry Hands-On Laboratory *Units: 2*
- GEOL 3011 - Foundational Earth Science *Units: 4*
- GEOL 3012 - Foundational Earth Science Laboratory *Units: 1*
- GEOL 3080 - Earth Science Hands-On Laboratory *Units: 2*
- PHYS 3011 - Foundational Physics *Units: 4*
- PHYS 3012 - Foundational Physics Laboratory *Units: 1*
- PHYS 3080 - Physics Hands-on Laboratory *Units: 2*

Special Education Area (25-28 units)

Complete 25-28 units from the following areas:

Complete the following 5 courses for 19 units:

- EPSY 5021 - Introduction to Educating all Students in Diverse Classrooms *Units: 4*
- EPSY 5125 - Educational Practices: Mild-Moderate Disabilities *Units: 4*
- EPSY 5126 - Special Education Law and Program Design *Units: 4*
- EPSY 5136 - Educational Practices: Moderate-Severe Disabilities *Units: 4*
- TED 3001 - Exploring Education *Units: 3 (or 45 hours of documented experience in a special education setting)*

Complete any 2 courses from the groups below for 6-9 units:

The 2 courses must be from two different groups.

Group 1

- SPPA 3852 - Speech, Language and Communication Development Across the Lifespan *Units: 4*
- SPPA 3855 - Phonetics *Units: 4*
- SPPA 3856 - Observation of Clinical Procedures in Communicative Disorders *Units: 2*
- SPPA 3859 - Theory and Practice of Audiology I *Units: 4*
- SPPA 4861 - Hearing Assessment: Instrumentation and Behavioral *Units: 5*
- SPPA 4863 - Articulation and Phonological Disorders *Units: 4*
- SPPA 4865 - Language Disorders in Children *Units: 4*

Group 2

- DANC 3235 - Dance for Children *Units: 4*
- KIN 3305 - Structural Kinesiology *Units: 4*
- KIN 4008 - Adapted Physical Activity *Units: 4*
- REC 4600 - Recreation Therapy Documentation and Assessment *Units: 4*
- REC 4601 - Recreation Therapy Treatment and Program Planning *Units: 4*

Group 3

- HDEV 3301 - Child Development *Units: 4*
- HDEV 3800 - Human Development and Interaction *Units: 4*
- HDEV 4110 - Child Cognitive Development *Units: 4*
- HDEV 4120 - Child Language Development *Units: 4*
- HDEV 4150 - Children in Families and Communities *Units: 4*
- PSYC 4345 - Sensation and Perception *Units: 4*
- PSYC 4410 - Abnormal Psychology *Units: 4*
- PSYC 4420 - Developmental Psychology *Units: 4*
- SOC 4750 - Child Welfare *Units: 4*

Studies in Education Area (18 units)

BPEP Students Only (18 units)

- TED 5110 - Computer-Based Technology in the Classroom I *Units: 3*
- TED 5351 - Psychological Foundations of Education and Planning for Instruction *Units: 4*
- TED 5355 - Equity and Diversity/Teaching English Learners A *Units: 4*
- TED 5366 - Equity and Diversity/Teaching English Learners B *Units: 3*
- TED 5378 - Teaching Special Populations in General Education Settings *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Bachelor Plus Credential Blended Program

Bachelors Plus: Early Pathway Liberal Studies/Credential Program (BPEP)

Department & Faculty Information

The BPEP Liberal Studies/Credential Program combines, with minor changes, two outstanding programs on the Hayward and Concord campuses designed for future elementary school teachers: the Liberal Studies B.A. major and the Multiple Subject Credential Program in Teacher Education.

- Liberal Studies, Teacher Preparation Option B.A. (also including BPEP Pathway)
- Multiple Subject Credential: Blended Liberal Studies Major (Bachelor's Plus Early Pathway)

The BPEP Program meets the requirements set by the California Commission on Teacher Credentialing for subject matter and professional preparation. A student who completes this program will be granted a B.A. degree majoring in Liberal Studies and, upon passage of the CSET Multiple Subject Examination and RICA examination, a Level I (Preliminary) Multiple Subject teaching credential.

The BPEP Program is an alternative to the traditional sequence of four years of undergraduate work and one year of post-baccalaureate work in the Teacher Education Department. That degree/credential path continues to exist and is chosen by most of our students. The BPEP Program is an intensive, accelerated program that combines subject matter coursework with training in educational methods and experience in the elementary school classroom.

The BPEP Program is a full-time commitment for two years including the intervening summer between the junior and senior years. During those years, students are required to take 20 to 24 units a quarter. As a

result of this concentrated work-load, most students find it difficult to hold down a job during their time in the program. Final admission requirements for the Credential Program must be completed during the junior year. During the senior year, students are members of a Multiple Subject Credential Team. Members of the Team take their courses together and finish together. Thus, students are unable to move through the program at their own pace.

Admission

Students must declare Liberal Studies as their major and then contact the Liberal Studies office to apply for admission to the BPEP Program. Admission is a two stage process: (1) provisional admission during the summer prior to the student's junior year, and (2) final admission at the end of the junior year.

Provisional admission requirements are: a minimum GPA of 2.90; completion of TED 3001 or an equivalent course which requires a minimum of 45 hours of field experience in an elementary school classroom; and three letters of recommendation, including one from a teacher or principal verifying experience in a K-6 classroom. (One letter may be from the instructor in TED 3001 or equivalent course.) Final admission requirements are: passage of the CBEST and CSET examinations; completion of 80% of the Liberal Studies major; a minimum GPA of 2.90 in coursework taken during the junior year; and an admission interview by the Multiple Subject Credential Team Leader.

Please contact the Liberal Studies office for information concerning admission forms, admission deadlines, and for the specific courses required during the junior and senior years.

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Marine Science Program

Moss Landing Marine Laboratories

Professors Emeriti

William Broenkow (Physical Oceanography)

Gregor M. Cailliet (Ichthyology)

Michael S. Foster (Phycology)

H. Gary Greene (Marine Geology)

Professors

Ivano W. Aiello (Geological Oceanography)

Kenneth H. Coale (Chemical Oceanography/Trace Metals)

Jon Geller (Invertebrate Zoology)

Michael H. Graham (Phycology)

Scott Hamilton (Ichthyology)

James T. Harvey (Interim Director, Vertebrate Ecology)

Erika McPhee-Shaw (Physical Oceanography)

Joan Parker (Research Librarian)

Diana Steller (Research Diving)

Nick Welschmeyer (Biological Oceanography)

Research Professors

Simona Bartl (Molecular Biology)

Laurence Breaker (Physical Oceanography)

David A. Ebert (Ecomorphology)

Stacy Kim (Benthic Ecology)

Valerie Loeb (Ichthyoplankton)

John Oliver (Benthic Ecology)

Jason Smith (Environmental Biotechnology Laboratory)

Richard M. Starr (C.A. Seagrant/Fisheries and Conservation Biology)

The California State University operates the Moss Landing Marine Laboratories (MLML) at Moss Landing on Monterey Bay, California. This facility functions as a seaside extension of the campuses of seven cooperating California State Universities (East Bay, Monterey Bay, San Jose, San Francisco, Sacramento, Stanislaus, and Fresno) and offers course work in marine biology, geology, oceanography, and other marine sciences.

Facilities

Since January 2000, the Laboratories have occupied new facilities in Moss Landing overlooking Monterey Bay, replacing the original laboratory demolished in the 1989 Loma Prieta earthquake. The stunning new building provides modern, up-to-date classrooms, laboratories, research facilities, library and conference room for faculty, staff and students of the consortium campuses.

MLML's Marine Operations Center, located also in Moss Landing, facilitates oceanographic and near-shore classes and research by providing shore support. The Center houses equipment used for in-port maintenance of scientific equipment, SCUBA air compressor, shore-based radio operations, and other support needs.

The MLML maintains a collection of nautical charts and topographical maps with an emphasis on the West Coast and there is a growing collection of reprints. It also subscribes to abstracting services such as "Oceanic Abstracts" and "Aquatic Sciences and Fisheries Abstracts." A terminal is available for computer

literature searches. Close ties are maintained with libraries at Stanford's Hopkins Marine Station, U.C. Santa Cruz, Naval Postgraduate School, San Jose State University, and the Monterey Bay Aquarium Research Institute. Materials are borrowed from these agencies or further afield as the need arises. A special effort has been made to collect materials relating to Monterey Bay and Elkhorn Slough.

As a member of the Central California Oceanographic Cooperative (CENCAL), MLML operates the 135-foot Research Vessel Point Sur. The R/V Point Sur, built in 1981, is well-equipped for instructional use and research, with a trawl winch, two hydrographic winches and three laboratories, scientific equipment for sampling and oceanographic profiling, Smith-McIntyre grabs, rock dredges, and various types of coring devices. Also available is a variety of nets for bottom and midwater trawls.

The Laboratories also own and operate the 56-foot R/V John Martin and the 35-foot R/V Ed Ricketts. These boats are used for trawling, water sampling and other work near shore, and serve as diving platforms.

In addition, faculty and students at MLML utilize other University National Oceanographic Laboratory System (UNOLS) vessels when they have research requirements for larger vessels or for vessels in a different area of the world. MLML personnel have participated in cruises to Baja California, Hawaii, the Bahamas, Mexico, South America, the Arctic, and the Antarctic.

Graduate Program

A Master of Science in Marine Science degree program is offered at MLML for students from Cal State East Bay and the other consortium schools. Details of this program follow. In addition, graduate students from Cal State East Bay may take such courses at Moss Landing as are appropriate to their degree objectives, including that of an M.S. in Biological Science or an M.S. in Geology. (See the Department of Biological Sciences and Department of Earth and Environmental Sciences chapters in this catalog.) A major part of the work leading to the M.S. degree in Biological Science, particularly in the environmental biology option, or to the M.S. degree in Geology, may be completed at the Marine Laboratories. Normally, a minimum of one or two quarters enrollment for other necessary courses on the Hayward campus may also be required.

Courses Offered

Full-time coursework and research in marine sciences are offered the year around. Emphasis in instruction and research is at the upper-division undergraduate and graduate levels. The Laboratories operate on a semester system during the academic year.

A total of thirty to forty units is offered each term in marine biological and physical sciences. Contact the Cal State East Bay Department of Biological Sciences for a current list of courses for the term you wish to attend, or you can write to Moss Landing Marine Labs, 8272 Moss Landing Road, Moss Landing, CA 95039. Basic courses offered every term include marine ecology, marine science diving, graduate seminar, and selected topics in marine sciences. See the BIOL and ENSC course prefixes in the Course Descriptions chapter in this catalog.

Nature of Instructional Program

Classes usually are small, with major emphasis upon field and laboratory instruction, and with a strong independent study or directed research component. Coursework usually is organized into large blocks of time (all day on a given day). Since field and laboratory activities are more demanding of time and energy than is usual for on-campus courses, the staff recommends that the student limit his or her academic load to twelve units. While it is possible to commute to Moss Landing for part-time work, this is not

recommended because of the time and energy drain. In addition to standard course offerings, independent study (undergraduate) and graduate research and thesis work may be undertaken under supervision of staff members currently in residence.

Research Areas and Emphases at Moss Landing

Stress is upon field-oriented studies of marine and estuarine ecosystems, with physical science research concerned particularly with geological, chemical, and physical limiting factors, and biological investigations dealing with relationships of organisms to these factors. Where possible, physical and biological studies are paired to provide reciprocal benefits from a team approach and from interdisciplinary faculty sponsorship. The near-shore shallow waters of Monterey Bay, Elkhorn Slough, and the deep waters of the Monterey Submarine Canyon provide a wide diversity of habitats.

Housing in Moss Landing Area

Commercial housing (apartments, small furnished houses, rooms with or without board, etc.) is available at communities near Moss Landing (Castroville, Salinas, Watsonville, Aptos, Monterey). Short-distance commuting from these areas is necessary; thus, availability of a car or participation in a car pool usually is required.

Registration Procedures

Since MLML courses are offered on the semester system (fall and spring semesters), there are special registration procedures.

Students must complete and submit a "Space Reservation" form to MLML (available through the Cal State East Bay Department of Biological Sciences and through MLML). Permission must be given by Cal State East Bay Biological Sciences for East Bay MLML students to register online. Students must also attend the first day of classes at MLML.

Fall and spring registration for MLML courses is at the same time as Cal State East Bay's regular fall and spring registration. Fall registration fees are paid at the same time as regular fall registration fees. Spring registration fees must be paid at the beginning of spring semester MLML classes (end of January).

Program for Accelerated College Education (PACE)

**Program for Accelerated College Education
Academic Programs and Graduate Studies/Academic Advising and Career Education
Student Services and Administration Building**

PACE Office: SA 2300, 2nd Floor (located inside Academic Advising and Career Education)

Phone: (510) 885-PACE (7223)

Fax: (510) 885-4785

Email: paceoffice@csueastbay.edu

Website: www.csueastbay.edu/pace

Academic Director: Donna Wiley

Program Coordinator: Shannon Coskran

Program Description

PACE is an innovative program which enables working adult students to make accelerated progress toward a Bachelor of Arts degree with a major in either Human Development or Liberal Studies. PACE classes are the same as those taken by students pursuing their degrees through the traditional university format. The only difference is the carefully structured course sequence which includes only courses in the evening, weekend and/or online, as well as the dedicated academic advising for PACE students. The PACE Program is also available at the Cal State East Bay Concord Campus.

Convenient Locations

- Hayward Hills Campus
- Concord Campus

Career Opportunities

Graduates in Human Development enjoy a wide variety of professional career opportunities. Among these are business, consulting, counseling and social services, probation/corrections, and education. The Human Development major is excellent preparation for graduate programs in law, counseling, social work, clinical psychology, public administration, and business administration.

Liberal Studies graduates go on to a broad range of careers and occupations in community services, business, government, early childhood education and the elementary (K-8) teaching profession. The Liberal Studies major is also excellent preparation for law school and graduate work in numerous fields such as public administration and education.

Features

PACE students are provided with a curriculum roadmap consisting of 12 to 13 units per quarter that allows them to complete their degree in two years. All classes are offered evenings, weekends, or online for the convenience of the working adult. The Human Development major can be fully completed online. PACE students also have access to intensive advising services in AACE, and are eligible to apply for the Bernard Osher Reentry Scholarship.

Students who come into the program with all entry requirements met, including sufficient transfer units, may complete the B.A. or B.S. in a minimum of seven quarters.

PACE Priority: Seating is reserved for PACE students in designated classes through the first pass of regular registration. PACE registration privileges only apply to the first pass of registration. Students placed on a waitlist for a course will be taken in the order in which they were placed on the waitlist. Also, students who miss the first class may be dropped.

Preparation

The best preparation for entry into the PACE Program is the completion of lower division General Education requirements. PACE welcomes inquiries from community college counselors and prospective students. Pre-admission advising for potential transfer students is available through pre-admission counselors at the Welcome Center. To schedule an appointment, call (510) 885-2256.

Specific PACE entry requirements are:

- Acceptance for admission to Cal State East Bay must be completed before applying to the PACE program. For university admission information and criteria visit the Admission Office's website. To meet

with a pre-admission counselor to find out if you meet the admission criteria or to learn more about the admission process, please visit their website.

- Must be a newly admitted transfer student. PACE does not admit current students or a student that started at Cal State East Bay as a freshman.
- Must be working at least 25 hours per week.
- Must be 25 or older.
- Must be willing to take a minimum of 8 units per quarter while enrolled at Cal State East Bay.
- Lower division General Education course work must be completed for PACE admission. Please consult with a community college transfer advisor regarding CSU East Bay's lower division GE requirements.
- Must pursue a major supported by PACE. **Currently PACE only supports Human Development and Liberal Studies majors.**

Students who have not completed the Cal State East Bay or PACE entry requirements are encouraged to do so, either at CSU East Bay or at their community college, and reapply.

Admission

Application to PACE is a two-step process. Prospective students must first apply to the university using the Calstate.edu/Apply online application. Students must then complete the PACE application, which is available online from the PACE website, www.csueastbay.edu/pace.

PACE applicants are evaluated for acceptance into the PACE program after they are admitted to the university. Students will be notified of their acceptance into the program by email. Students are normally admitted to PACE in Fall Quarter each year due to the cohort nature of the program. However, students may apply for other quarters and will be accepted into the program on a space available basis. Students who have not completed the PACE entry requirements are encouraged to do so, either at Cal State East Bay or at their community college, and reapply to the program when they are completed.

Program Structure and Requirements

PACE students are provided with a program curriculum roadmap that provides a quarter-by-quarter schedule of their program's course offerings. Students are expected to follow the roadmap as closely as possible, taking a minimum of eight units each quarter, or risk being discontinued from the PACE program. These roadmaps are available on the PACE website.

Major Requirements

See the Department of Human Development and Women's Studies chapter or Liberal Studies Program chapter.

School of Arts and Media

Program Director
Thomas C. Hird (Theatre and Dance), M.F.A. University of California, Los Angeles

School Mission

The field of video production, for television as well as for corporate, educational, and Web uses, is expanding rapidly and there is much demand by employers for people with these skills. Other programs and courses at Cal State East Bay feature documentary and news production (COMM); stage acting (THEA); fiction writing for the printed page and the Internet (ENGL). This program introduces a new

dimension to each of these areas: narrative or creative video. The new minor enables these departments to collaborate and actually create several videos of broadcast quality each year, giving students the opportunity to learn skills by practicing them.

Minor

Creative Video Minor

Creative Video (Certificate & Minor) 27-31 units

Program Description

The field of video production, for television as well as for corporate, educational, and Web uses, is expanding rapidly and there is much demand by employers for people with related skills. Other programs and courses at Cal State East Bay feature documentary and news production (COMM); stage acting (THEA); fiction writing for the printed page and the Internet (ENGL). This program introduces a new dimension to each of these areas: narrative or creative video. The new minor enables these departments to collaborate and actually create several videos of broadcast quality each year, giving students the opportunity to learn skills by practicing them.

Department Information

Departments of Art, English, Communication, and Theatre and Dance

Office: Robinson Hall 220

Phone: (510) 885-3118

Professor

Thomas C. Hird (Theatre and Dance), M.F.A. University of California, Los Angeles

Program Director: Thomas C. Hird

Program Requirements (Minor) 31 units

Required Courses

- ART 3820 - Digital Video *Units: 4* (has prerequisites that are not included in the program)
- COMM 3100 - Introduction to Professional Video Production *Units: 4*
- ENGL 2070 - Beginning Workshop in Fiction *Units: 4*
- THEA 1020 - Discover Acting *Units: 3*
- THEA 3052 - Acting for the Camera *Units: 4*
- Select 4 units of lower division COMM coursework with consent of department *Units: 4*
- Select 4 units of upper division COMM coursework with consent of department *Units: 4*
- Select 4 units of upper division THEA coursework with consent of department *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Certificate (Undergraduate) Program

Creative Video Certificate

Department & Faculty Information

Creative Video (Certificate & Minor) 27-31 units

Program Description

The field of video production, for television as well as for corporate, educational, and Web uses, is expanding rapidly and there is much demand by employers for people with related skills. Other programs and courses at Cal State East Bay feature documentary and news production (COMM); stage acting (THEA); fiction writing for the printed page and the Internet (ENGL). This program introduces a new dimension to each of these areas: narrative or creative video. The new minor enables these departments to collaborate and actually create several videos of broadcast quality each year, giving students the opportunity to learn skills by practicing them.

Department Information

Departments of Art, English, Communication, and Theatre and Dance
Office: Robinson Hall 220
Phone: (510) 885-3118

Professor

Thomas C. Hird (Theatre and Dance), M.F.A. University of California, Los Angeles

Program Director: Thomas C. Hird

Program Requirements (Certificate) 27 units

Required Courses (11 units)

- COMM 3100 - Introduction to Professional Video Production *Units: 4*
- ENGL 2070 - Beginning Workshop in Fiction *Units: 4*

- THEA 1020 - Discover Acting *Units: 3*
- or*
- THEA 2005 - Acting Fundamentals: Improvisation *Units: 3*

Electives (16 units)

- ART 3820 - Digital Video *Units: 4* (has prerequisites that are not included in the program)
- THEA 3052 - Acting for the Camera *Units: 4*
- Select 4 units of upper division THEA coursework covering teleplay acting and production, with consent of department *Units: 4*
- Select 4 units of upper division COMM coursework with consent of department *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

School of Engineering

School of Engineering

Computer Engineering, Industrial Engineering, Engineering Management, and Construction Management

The Department Office is located on the 3rd Floor of the Valley Business & Technology (VB) building, Room 346.

Hours Open: 8:00 a.m. to 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-2654

Faculty

Professors

David Bowen, Ph.D. University of California, Berkeley

Farnaz Ganjezadeh, Ph.D. University of Alabama at Huntsville

Saeid Motavalli (Chair), Ph.D. University of Pittsburgh

Zinovy Radovilsky (joint appointment in Engineering and Management), Ph.D. Scientific Research Institute of Labor, Moscow

Eric A. Suess (joint appointment in Engineering and Statistics), Ph.D. University of California, Davis

Helen Zong, Ph.D. University of Houston

Associate Professor

Farzad Shahbodaghlu, Ph.D. Purdue University

Assistant Professors

Reza Akhavian, Ph.D. University of Central Florida

Fadi Castronovo, Ph.D. Pennsylvania State University

Cristián Gaedicke, Ph.D. University of Illinois, Urbana-Champaign

Roger Doering, Ph.D. University of California, Berkeley

Howard H. Lei, Ph.D. University of California, Berkeley

James Tandon, Ph.D. University of California, Santa Barbara

Department Statement

Reach your full potential in the field of engineering and realize the future you envision with an undergraduate degree in Computer Engineering, Industrial Engineering, Engineering Management, and Construction Management from California State University, East Bay. As a graduate of the Bay Area's latest engineering degree program, you'll qualify yourself for a high potential career:

Computer Engineers are involved in all aspects of computing, from the design of individual microprocessors, personal computers, and supercomputers, to circuit design, as well as the integration of computer systems into other kinds of systems (a motor vehicle, for example, has a number of subsystems that are computer oriented). Common computer engineering tasks include writing embedded software for real-time microcontrollers, working with sensors, designing mixed signal circuit boards, and designing operating systems.

Industrial Engineers serve an essential need in today's technical society. As the interface between humans and technology, industrial engineers work to improve the quality and efficiency of the production of goods and services. The depth and caliber of academic preparation required to excel in this field is embodied in CSUEB's Industrial Engineering curriculum. The Industrial Engineering Program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700.

Engineering Management curriculum is distinctive in that it provides a blend of qualitative management and quantitative industrial engineering skills. Courses are offered in engineering, business, computer science and statistics. Students gain theoretical and practical training in how to plan, organize, allocate resources, and direct and control activities that have technological components.

Construction Management goals are to prepare effective managers for public and private construction projects, to prepare the workforce required for the expected increase in the State's transportation infrastructure improvements, and to enable high school graduates, transfer students and working professionals to assume leadership roles in the construction industry. Special attention is given to working professionals with classes offered mainly at times convenient to students.

Bachelor of Science

Computer Engineering, B.S.

Department & Faculty Information

Computer Engineering (B.S.) 190 units

Program Description

Computer engineers are involved in all aspects of computing, from the design of individual microprocessors, personal computers, and supercomputers, to circuit design, as well as the integration of computer systems into other kinds of systems (a motor vehicle, for example, has a number of subsystems that are computer oriented). Common computer engineering tasks include writing embedded software for real-time micro-controllers, working sensors, designing mixed signal circuit boards, and designing operating systems.

The Computer Engineering Program is accredited by the Engineering Accreditation Commission of ABET, 415 North Charles Street, Baltimore, MD 21202-4012, Telephone: (410) 347-7700.

Mission Statement

The Engineering program at California State University, East Bay provides a quality engineering education that prepares its graduates for employment related to their major and with an aptitude for continued learning. The program provides students with technical and problem solving capabilities, an understanding of real-world business often through practical experience, and excellent teamwork and communications skills. It promotes a high rate of student success in completing the program in a reasonable length of time and enables the transfer students to take no longer than native students in completing the upper division portion. Students graduate from the program with a high degree of satisfaction about their education. Faculty maintain a high level of currency in the discipline through a strong program of professional development and interaction with the Industrial Advisory Board.

Program Educational Objectives

The Department of Engineering provides a quality engineering education that produces graduates who:

- successfully apply their learned skills throughout their professional pursuits,
- have enthusiasm and aptitude to continuously pursue learning and professional development,
- have demonstrated in their professional performance an ability to work independently and to communicate and work well on teams alongside engineers and colleagues from other disciplines,
- are recognized as qualified engineers with high ethical standards.

Student Learning Outcomes

Students graduating with a B.S. degree in Computer Engineering or a B.S. in Industrial Engineering from Cal State East Bay will be able to:

- Apply knowledge of mathematics, science, and engineering.
- Design and conduct experiments, as well as to analyze and interpret data.
- Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- Function on multidisciplinary teams.
- Identify, formulate and solve engineering problems.
- Understand professional and ethical responsibility.
- Communicate effectively.
- Understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- Recognize the need for, and have an ability to engage in, life-long learning.
- Have knowledge of contemporary issues.
- Use the techniques, skills, and modern engineering tools necessary for engineering practice.

Career Opportunities

Computer engineers can work in a variety of industries, including aerospace, automotive, communication designing hardware and software for computers and embedded systems.

Features

Students interested in Engineering at Cal State East Bay may complete the first two years at a local community college. In so doing, it is important to determine, prior to taking courses, if the community college courses chosen have been articulated with the Cal State East Bay Engineering curriculum. Engineering senior design projects will be offered in conjunction with local industry.

Preparation

Prospective Engineering students should complete four years of high school mathematics, a year each of high school chemistry and physics with labs, and a computer programming course if available.

Major Requirements (B.S.) 138 units

The B.S. Degree requires 190 units.

- The core major consists of 138 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) consist of any remainder units to reach 180 total minimum units (see your advisor).*

Note: Students are required to earn a grade "C" or better in MATH 1304, MATH 1305, and MATH 2304.

Lower Division Core (68 units)

Note: Most of the lower division ENGR courses are available at local community colleges. Community college students should take them prior to transferring to Cal State East Bay.

- CHEM 1101 - General Chemistry *Units: 5*
- CS 1160 - Introduction to Computer Science I *Units: 4*
- CS 2360 - Introduction to Computer Science II *Units: 4*
- CS 2370 - Introduction to Computer Science III *Units: 4*
- CS 2430 - Computer Organization and Assembly Language Programming *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ENGR 1011 - Engineering: An Introduction *Units: 3*
- ENGR 1420 - Engineering Graphics *Units: 2*
- ENGR 2010 - Electric Circuit Theory I *Units: 3*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2304 - Calculus III *Units: 4*
- MATH 2150 - Discrete Structures *Units: 4*
- PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations *Units: 5*
- PHYS 1002 - General Physics: Thermodynamics and Optics *Units: 5*
- PHYS 1003 - General Physics: Electromagnetism *Units: 5*

Upper Division Core (62 units)

- CMPE 3010 - Electric Circuit Theory II *Units: 4*
- CMPE 4610 - Senior Design I *Units: 3*
- CMPE 4620 - Senior Design II *Units: 3*
- CS 3240 - Data Structures and Algorithms *Units: 4*
- CS 3430 - Computer Architecture *Units: 4*
- CS 3432 - Digital Design Lab *Units: 4*
- CS 3434 - Microprocessor Lab *Units: 4*
- CS 3752 - Introduction to Digital Signal Processing *Units: 4*
or cross-listed CMPE 3752.
- CS 4432 - VLSI Circuit Design *Units: 4*
- CS 4435 - Computer Architecture II *Units: 4*
or cross-listed CMPE 4435.
- CS 4560 - Operating Systems *Units: 4*
- INDE 3101 - Statics and Dynamics *Units: 4*
- INDE 3140 - Engineering Economy *Units: 4*
or cross-listed ECON 3140.
- MATH 3331 - Differential Equations *Units: 4*
- PHYS 3280 - Electronics *Units: 4*
- STAT 3601 - Statistics and Probability for Science and Engineering I *Units: 4*
or cross-listed INDE 3601.

Elective Core (8 units)

Choice of two courses from the following:

- CS 3120 - Programming Language Concepts *Units: 4*
- CS 3560 - Introduction to Systems Programming *Units: 4*
- CS 3590 - Data Communications and Networking *Units: 4*
- CS 4310 - Software Engineering I *Units: 4*
- CS 4590 - Computer Networks *Units: 4*
- CS 4594 - Broadband Networks and Communications *Units: 4*
- CS 4596 - Wireless and Mobile Networking *Units: 4*
- CS 4840 - Computer Graphics *Units: 4*
- ENGR 6200 - Project Management *Units: 4*
- ENGR 6300 - Applied Quality Assurance *Units: 4*
or cross-listed STAT 6300.
- ENGR 6400 - Research Methods in Engineering Management *Units: 4*
- INDE 3190 - Human Factors Engineering *Units: 4*
or cross-listed PSYC 3190.
- INDE 4200 - Systems Simulation *Units: 4*
- INDE 4280 - Design and Management of Human Work Systems *Units: 4*
- INDE 4300 - Quality Engineering *Units: 4*
- *or other 3000 and 4000 level courses with department approval*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Construction Management, B.S.

Department & Faculty Information

Construction Management (B.S.) 180 units

Program Description

The Department of Engineering offers a Bachelor of Science degree in Construction Management designed for individuals who are planning to advance their knowledge and careers for managing

construction projects.

The goals of the B.S. in Construction Management are to prepare effective managers for public and private construction projects, to prepare the workforce required for the state's transportation infrastructure improvements, and to enable high school graduates, transfer students and working professionals to assume leadership roles in the construction industry. Students will take required courses in computer aided construction design, construction material and methods, legal and environmental issues in construction, project planning and control, project management, soil mechanics and cost estimating. Issues in construction safety, building codes, electrical and mechanical systems and cost accounting are also covered. Students will also have a broad choice of electives from courses in construction management, engineering, or business to personalize their expertise.

Mission Statement

The mission of the Bachelor of Science degree in Construction Management is to prepare effective managers to lead public and private construction projects, prepare a technically capable management workforce required for the state's transportation infrastructure improvement projects, and enable high school graduates, transfer students and working professionals to assume leadership roles in construction industry.

Student Learning Outcomes

Students graduating with a B.S. in Construction Management from Cal State East Bay will be able to:

- have knowledge in the core construction management areas (construction materials and methods, safety, codes, scheduling, commissioning, planning and control, project management, construction law, cost accounting, human resources management, environmental and safety issues in construction),
- have knowledge in broad areas of construction management beyond the core areas,
- communicate effectively,
- function in teams,
- have the knowledge of sustainable building and construction techniques and relevant state regulations,
- have an awareness of the complex environment (involving professional and ethical responsibilities) in which they will practice their profession,
- educate themselves and be prepared for lifelong learning and professional development, and
- have experience in solving real life problems.

Career Opportunities

With the expected increase in large construction work in part stemming from the increase in public spending on California's transportation infrastructure improvement, there is considerable demand for individuals who can technically and scientifically manage construction projects. The construction industry as a whole is one of the largest industries in the nation with a great need for skilled project managers. Sample jobs are construction manager, site manager and others.

Features

The B.S. in Construction Management is designed to accommodate full time students as well as working students. The majority of faculty have significant construction management work experience. Students

will have the opportunity to take elective courses in engineering, business, or science to broaden their skills.

Admission

The B.S. in Construction Management is open to individuals planning a career or advancing their career in the construction industry and who meet general university requirements for freshmen or transfer students (see Admission/Undergraduate chapter of the catalog).

CMGT Sample Program

A Sample Program for this degree can be found at the department website:
www20.csueastbay.edu/csci/departments/engineering/index.html.

Major Requirements (B.S.) 128 units

The B.S. in Construction Management requires the completion of 180 quarter units distributed among required courses and electives.

- The core major consists of 128 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 total units (see your advisor).*

Lower Division Core (48 units)

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- CHEM 1100 - Introduction to College Chemistry *Units: 5*
- CMGT 1011 - Introduction to Construction Management *Units: 4*
- CMGT 2011 - Surveying and Blueprint Reading *Units: 4*
- CMGT 2060 - Construction Methods and Material I *Units: 4*
- CMGT 2070 - Construction Methods and Material II *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ENGR 1420 - Engineering Graphics *Units: 2*
- MATH 1304 - Calculus I *Units: 4*
- PHYS 2701 - Introductory Physics: Force, Mass and Motion *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*
- PSYC 1000 - General Psychology *Units: 5*

Upper Division Core (72 units)

- CMGT 3101 - Statics *Units: 4*
- CMGT 3250 - Electrical and Mechanical Systems in Construction *Units: 4*
- CMGT 3280 - Construction Law *Units: 4*
- CMGT 3400 - Construction Project Management and Commissioning *Units: 4*
- CMGT 3450 - Building Codes *Units: 4*

- CMGT 3600 - Soil Mechanics and Building Foundations *Units: 4*
- CMGT 4100 - Engineering Graphics for Construction Management *Units: 4*
- CMGT 4200 - Construction Scheduling *Units: 4*
- CMGT 4300 - Environmental Issues and Green Building *Units: 4*
- CMGT 4400 - Construction Cost Estimating *Units: 4*
- CMGT 4500 - Construction Project Planning and Control, Computer Tools *Units: 4*
- CMGT 4610 - Senior Project I *Units: 4*
- CMGT 4620 - Senior Project II *Units: 4*
- CMGT 4800 - Construction Safety *Units: 4*
- INDE 3140 - Engineering Economy *Units: 4*
- MGMT 3600 - Theories of Management *Units: 4*
- MGMT 3610 - Strategic Human Resources Management *Units: 4*
- STAT 3031 - Statistical Methods in Biology *Units: 4*

Elective Courses (8 units)

Two courses (8 quarter units) from the following courses or other 3000 or 4000 level courses with department approval.

- ACCT 2253 - Introduction to Managerial Accounting *Units: 4*
- ACCT 2701 - Legal Environment of Business *Units: 4*
- ACCT 3210 - Cash Management *Units: 4*
- ACCT 3230 - Cost Management *Units: 4*
- FIN 3300 - Financial Management *Units: 4*
- FIN 4410 - Real Estate Finance and Investment *Units: 4*
- FIN 4415 - Real Estate Valuation *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*
- MGMT 3645 - Global Supply Chain Management *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Industrial Engineering, B.S.

Department & Faculty Information

Industrial Engineering (B.S.) 187 units

Program Description

Industrial Engineering is the profession concerned with solving engineering problems by applying scientific logic and systems methodology and by utilizing information, energy, materials, facilities, and personnel most effectively. Its objectives are to improve quality, increase efficiency and reduce costs associated with the production of goods and services and to act as the interface between technology and humans. Engineering methods and practical knowledge are used in formulating decision models for the optimum application of engineering principles.

The Industrial Engineering Program is accredited by the Engineering Accreditation Commission of ABET, 415 North Charles Street, Baltimore, MD 21202-4012, Telephone: (410) 347-7700.

Mission Statement

The Engineering program at California State University, East Bay provides a quality engineering education that prepares its graduates for employment related to their major and with an aptitude for continued learning. The program provides students with technical and problem solving capabilities, an understanding of real-world business often through practical experience, and excellent teamwork and communications skills. It promotes a high rate of student success in completing the program in a reasonable length of time and enables the transfer students to take no longer than native students in completing the upper division portion. Students graduate from the program with a high degree of satisfaction about their education. Faculty maintain a high level of currency in the discipline through a strong program of professional development and interaction with the Industrial Advisory Board.

Program Educational Objectives

The Department of Engineering provides a quality engineering education that produces graduates who:

- successfully apply their learned skills throughout their professional pursuits,
- have enthusiasm and aptitude to continuously pursue learning and professional development,
- have demonstrated in their professional performance an ability to work independently and to communicate and work well on teams alongside engineers and colleagues from other disciplines,
- are recognized as qualified engineers with high ethical standards.

Student Learning Outcomes

Students graduating with a B.S. degree in Computer Engineering or a B.S. in Industrial Engineering from Cal State East Bay will be able to:

- Apply knowledge of mathematics, science, and engineering.
- Design and conduct experiments, as well as to analyze and interpret data.
- Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- Function on multidisciplinary teams.

- Identify, formulate and solve engineering problems.
- Understand professional and ethical responsibility.
- Communicate effectively.
- Understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- Recognize the need for, and have an ability to engage in, life-long learning.
- Have knowledge of contemporary issues.
- Use the techniques, skills, and modern engineering tools necessary for engineering practice.

Career Opportunities

Industrial engineers can work in a variety of capacities, including engineering management, industrial engineer, manufacturing engineer, quality engineer, project manager and system analyst.

Features

Students interested in Engineering at Cal State East Bay may complete the first two years at a local community college. In so doing, it is important to determine, prior to taking courses, if the community college courses chosen have been articulated with the Cal State East Bay Engineering curriculum. Engineering senior design projects will be offered in conjunction with local industry.

Preparation

Prospective Engineering students should complete four years of high school mathematics, a year each of high school chemistry and physics with labs, and a computer programming course if available.

Major Requirements (B.S.) 143 units

The B.S. Degree requires 187 units.

- The core major consists of 143 units;
- GE/USHG/UWS consists of 84 units (some courses may double-count units - see your advisor).
- *Free Electives (if any) will make up the remainder units to reach 180 minimum total units (see your advisor).*

Note: Students are required to earn a grade C or better in MATH 1304, 1305 and 2304.

Lower Division Core (65 units)

Note: Most of the lower division ENGR courses are available at local community colleges. Community college students should take them prior to transferring to Cal State East Bay

- CHEM 1101 - General Chemistry *Units: 5*
- CS 1160 - Introduction to Computer Science I *Units: 4*
- ECON 2301 - Principles of Microeconomics *Units: 4*
- ENGR 1011 - Engineering: An Introduction *Units: 3*
- ENGR 1420 - Engineering Graphics *Units: 2*
- ENGR 2010 - Electric Circuit Theory I *Units: 3*

- ENGR 2060 - Materials Science *Units: 4*
- ENGR 2070 - Fundamentals of Manufacturing *Units: 4*
- MATH 1304 - Calculus I *Units: 4*
- MATH 1305 - Calculus II *Units: 4*
- MATH 2101 - Elements of Linear Algebra *Units: 4*
- MATH 2304 - Calculus III *Units: 4*
- PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations *Units: 5*
- PHYS 1002 - General Physics: Thermodynamics and Optics *Units: 5*
- PHYS 1003 - General Physics: Electromagnetism *Units: 5*
- PSYC 1005 - General Psychology for Healthier Living *Units: 5*

or one of:

PSYC 1000 General Psychology Units: 5

or

PSYC 1001 General Psychology and Society Units: 5

Upper Division Core (66 units)

- INDE 3020 - Work Design and Measurement *Units: 4*
 - INDE 3101 - Statics and Dynamics *Units: 4*
 - INDE 3140 - Engineering Economy *Units: 4*
 - INDE 3190 - Human Factors Engineering *Units: 4*
- or cross-listed PSYC 3190*
- INDE 3841 - Operations Research *Units: 4*
 - INDE 4100 - Production Planning and Control *Units: 4*
 - INDE 4200 - Systems Simulation *Units: 4*
 - INDE 4280 - Design and Management of Human Work Systems *Units: 4*
 - INDE 4300 - Quality Engineering *Units: 4*
 - INDE 4350 - Reliability Engineering *Units: 4*
 - INDE 4400 - Systems Modeling *Units: 4*
 - INDE 4430 - Facilities Planning and Design *Units: 4*
 - INDE 4440 - Computer Integrated Manufacturing Systems *Units: 4*
 - INDE 4610 - Senior Design I *Units: 3*
 - INDE 4620 - Senior Design II *Units: 3*
 - STAT 3601 - Statistics and Probability for Science and Engineering I *Units: 4*
- or cross-listed INDE 3601*
- STAT 3602 - Statistics and Probability for Science and Engineering II *Units: 4*
- or cross-listed INDE 3602*

Elective Core (12 units)

Select two courses (8 units) from the following (or other 3000 or above Math or Basic Science courses with Department approval):

- BIOL 3020 - Genetics, Evolution, and Humanity *Units: 4*
- MATH 3331 - Differential Equations *Units: 4*

- **MATH 3750 - Numerical Analysis I** *Units: 4*
or cross-listed CS 3750.

Select one course (4 units) from the following (or other 3000 or 4000 level courses with Department approval):

- **INDE 3898 - Cooperative Education** *Units: 1-4*
- **INDE 4180 - Product-Process Design** *Units: 4*
- **INDE 4900 - Independent Study** *Units: 1-4*
- **MATH 4841 - Topics in Optimization** *Units: 4*
- **MGMT 3600 - Theories of Management** *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described throughout this catalog. These include the General Education-Breadth requirements; the second composition (ENGL 1002) requirement; the cultural groups/women requirement; the performing arts/activities requirement; the U.S. history, U.S. Constitution, and California state and local government requirement; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Master of Science

Construction Management, M.S.

Department & Faculty Information

Construction Management (M.S.) 48 units

Program Description

The Department of Engineering offers an interdisciplinary Masters of Science degree in Construction Management. This degree is designed for working professionals who are in leadership/management positions in the construction industry or planning to advance their careers to manage large construction projects.

The goals of the Masters of Science degree in Construction Management are to prepare effective managers for large public and private construction projects, to prepare the workforce required for the state's transportation infrastructure improvements, and to enable current and future engineers and other professionals to assume leadership roles in the construction industry.

This program is different from other construction management programs as it is based on a well-balanced curriculum covering various aspects of the construction management profession. Special attention is given to working professionals with classes offered at times convenient for the students. Students will

take required courses in legal and environmental issues in construction, project planning and control, cost estimating, financial and risk management issues. Also issues in construction safety and current trends in construction industry will be discussed. Students will also have a broad choice of electives from courses in construction management, engineering, business, or other graduate courses with department approval.

Mission Statement

The mission of the Masters of Science degree in Construction Management is to prepare effective managers to lead medium and large public and private construction projects, prepare a technically capable management workforce requirement for the state's transportation infrastructure improvement projects, and enable current and future engineers and other professionals to assume leadership roles in the construction industry.

Student Learning Outcomes

Students graduating with an M.S. in Construction Management from Cal State East Bay will be able to:

- have knowledge in the core construction management areas (legal issues in construction, environmental issues, project planning and control, financial decision making, risk analysis, and safety),
- have knowledge in broad areas of construction management beyond the core areas,
- communicate effectively,
- function in teams,
- have the knowledge of sustainable building and construction techniques and relevant state regulations,
- have an awareness of the complex environment (involving professional and ethical responsibilities) in which they will practice their profession,
- have the ability to educate themselves and be prepared for lifelong learning and professional development, and
- have experience in solving real life problems.

Career Opportunities

With the expected increase in large construction work, in part stemming from the increase in public spending on California's transportation infrastructure improvement, there is considerable demand for individuals who can technically and scientifically manage large construction projects. The construction industry, as a whole, is one of the largest industries in the nation with a great need for skilled project managers. Sample jobs are construction manager, site manager and others.

Features

The M.S. in Construction Management is designed to accommodate working adults. The class meetings will be conducted at times convenient for the students. Most of the faculty and instructors have significant construction management work experience. Students will have the opportunity to take elective courses in construction management, engineering, business, or other graduate courses with department approval, to broaden their skills.

Admission

The M.S. in Construction Management is open to individuals planning a career or advancing their career in the construction industry, and who have

- a baccalaureate degree from an accredited university with a minimum overall GPA of 2.5 (4.0 basis) in their undergraduate work,
- relevant work experience, and
- College Algebra and Trigonometry or equivalent level math courses.

In addition to the University Graduate and Post-baccalaureate Application, which includes minimum TOEFL or IELTS scores for international students, all applicants should submit to the department:

- personal statement explaining their reasons for wanting to pursue the M.S. in Construction Management degree,
- a resume detailing their professional and academic achievements, and
- two letters of recommendation.

Admission to the University and admission to the M.S. in Construction Management degree program are separate steps.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and "Advancement to Candidacy" student.

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the M.S. in Construction Management degree program, but have not yet completed the prerequisites for "Classified Graduate" status in the M.S. in Construction Management.
- Students achieve "Classified Graduate" status when they have satisfied the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
- Students are advanced to Candidacy when they have completed the required courses with a 3.0 or better GPA.

Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive quarters will be academically disqualified from the university.

Degree Requirements

The M.S. degree program in Construction Management requires completion of 48 quarter units distributed among required courses, elective courses, and the Project. Of these units, at least 35 units must be completed in residence (transfer units are limited to 13 quarter units); at least 24 units must be in courses in the 6000 series. No course numbered 1000 to 2999 (or equivalent if taken elsewhere) may be used as part of the 48-unit graduate degree program.

No more than 4 units of Independent Study (CMGT 6900) may be counted toward the 48 units required for the degree. Project credit may not exceed 4 units.

A grade point average of 3.0 must be maintained in all 48-quarter units taken to satisfy the degree requirements. All graduate degree requirements must be completed within five (5) years.

Sample Program

A Sample Program for this degree can be found at the department website:
www20.csueastbay.edu/csci/departments/engineering/.

Incompletes

Students accumulating more than 8 units of work graded "I" may not register for courses applicable to the degree until the "I" grades are removed.

Required Courses (36 units)

- CMGT 6100 - Engineering Graphics for Construction Management *Units: 4*
- CMGT 6200 - Legal Issues in Construction Management *Units: 4*
- CMGT 6300 - Environmental Issues and Green Building *Units: 4*
- CMGT 6400 - Construction Cost Estimating *Units: 4*
- CMGT 6500 - Construction Project Planning and Control, Computer Tools *Units: 4*
- CMGT 6600 - Financial Decision Making and Reporting in Construction *Units: 4*
- CMGT 6700 - Construction Risk Management and Commissioning *Units: 4*
- CMGT 6800 - Construction Safety *Units: 4*
- CMGT 6850 - Current Issues in Construction Management *Units: 4*

Elective Courses (8 units)

Eight (8) quarter units of graduate course credit from the following list or other graduate courses with department approval.

- CMGT 6860 - Utility Systems Construction *Units: 4*
 - CMGT 6870 - Advanced Integrated Computer Applications *Units: 4*
 - CMGT 6900 - Independent Study *Units: 1-4*
 - ENGR 5601 - Introductory Statistics and Probability for Science and Engineering *Units: 4*
 - MGMT 6130 - Enterprise Planning and Control *Units: 4*
- or
- ENGR 6200 - Project Management *Units: 4*
- and
- ENGR 6400 - Research Methods in Engineering Management *Units: 4*

Capstone Experience (4 units)

To complete a research project, students enroll in CMGT 6899 below. The Project is a capstone cumulative experience based on the coursework completed for the degree and is accompanied by a written document. A faculty member from the department supervises the student's work.* *Note: see the Errata chapter of this catalog for minor changes.*

Grades of "RP" (Report in Progress) may be given for a Project that is not completed at the end of the quarter. The "RP" grade must be removed within one year or it will become an "F."

Granting the Degree

Upon satisfaction of all requirements for the degree, the department will recommend that the candidate be granted the Master of Science degree in Construction Management. **Students must file for graduation by the end of the second week of the quarter prior to the quarter in which they expect to graduate.**

- CMGT 6880 - Applied Research in Construction Management *Units: 4*
- CMGT 6899 - Project *Units: 1-4*
- or pass the comprehensive examination and complete an additional 4-unit elective course with departmental approval. Units:4

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Engineering Management, M.S.

Department & Faculty Information

Program Description

The Department of Engineering, in cooperation with the College of Business and Economics, offers an interdisciplinary Master of Science degree in Engineering Management. This degree is designed for working engineers and professionals who are in leadership/management positions or who are planning to advance their careers into the management of technical enterprises. It is also designed to benefit engineering or science graduates who are interested in assuming leadership positions in industry.

The objectives of the M.S. in Engineering Management are:

- to prepare future managers of technical enterprises;
- to enable current and future engineers/scientists to assume leadership positions as they advance in their careers; and
- to meet the demand for effective engineering managers who are able to lead technically complex industries.

This degree is different from other Engineering Management degrees in that it includes a well-balanced curriculum consisting of quantitative courses in industrial engineering and qualitative management courses. The curriculum gives students an understanding of both the engineering and management perspectives. This is valuable for individuals managing engineering/high tech firms.

Students take required courses in design and management of human work systems, systems simulation, applied quality assurance, product process design, project management, and research methods in engineering management. Also included in the core are courses in financial management and enterprise

planning and control. Students also have a broad choice of electives, allowing them to select from many areas of specialization.

Career Opportunities

There is a great need for individuals who possess both technical background and management skills to run the large variety of technical enterprises. Traditionally, engineers move into management positions in technical enterprises without having a formal academic background in management. The Engineering Management graduate, however, is better equipped to recognize the effects of new technology on management issues and to understand the products and services produced by these technical firms. This understanding gives Engineering Management graduates an edge over traditional managers, and enables them to become effective industry leaders in the engineering industry.

Features

The M.S. in Engineering Management is designed to accommodate working adults with courses generally meeting in the evening. The interdisciplinary design of the program allows students to take courses from faculty in engineering, business, computer science and/or statistics. The elective courses in the curriculum give students the opportunity to concentrate study in their areas of interest.

Admission

The M.S. Degree in Engineering Management is open to students planning a career, or seeking to advance their career in managing technical enterprises who: (1) have a baccalaureate degree in engineering, basic science or related fields from an accredited institution, and (2) have earned an overall grade point average of 2.5 (4.0 basis) or better in their undergraduate work. Degrees from foreign institutions will be individually evaluated and should include TOEFL or IELTS scores above minimum required for admission to the university.

In addition to the University Graduate and Post-baccalaureate Application, all applicants should: (1) submit a personal statement with the application stating their reasons for wanting to pursue the M.S. in Engineering Management degree, describing relevant work experience, and explaining their past academic performance; (2) submit two letters of recommendation; and (3) submit a resume.

Admission to the university and admission to the M.S. in Engineering Management degree program are separate steps.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate," "Classified Graduate," and "Advancement to Candidacy."

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the M.S. in Engineering Management degree program, but have not yet completed the prerequisites for "Classified Graduate" status in the M.S. in Engineering Management degree program.
- Students achieve "Classified Graduate" status when they have satisfactorily completed the three prerequisites for the M.S. in Engineering Management degree program or their equivalents, and satisfied the University Writing Skills Requirement. (See "Prerequisites for Classified Graduate Status" below.)

- Students are Advanced to Candidacy when they have completed the required courses with a 3.0 or better GPA

Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive quarters will be academically disqualified from the university.

Degree Requirements

The M.S. degree program in Engineering Management requires completion of 48 quarter units distributed among required courses, elective courses, and the Project course (or comprehensive examination and an additional four-unit elective course). Of these units, at least 35 units must be completed in residence (transfer units are limited to 13 quarter units); at least 24 units must be in courses in the 6000 series. No course numbered 1000 to 2999 (or equivalent if taken elsewhere) may be used as part of the 48-unit graduate degree program.

No more than 4 units of Independent Study (ENGR 6900) may be counted toward the 48 units required for the degree. Project credit may not exceed 4 units.

A grade point average of 3.0 must be maintained in all 48-quarter units taken to satisfy the degree requirements. All graduate degree requirements must be completed within five (5) years.

Prerequisites

As prerequisites for "Classified Graduate" status, students must satisfy the University Writing Skills Requirement and satisfactorily complete the following three courses. *Each course must be completed with a grade of "B" or better.*

Note: Students can request to have one or more of these prerequisites waived based upon coursework taken at other schools. These prerequisite courses should be taken before attempting the core graduate courses. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- INDE 3140 - Engineering Economy *Units: 4*
- STAT 3601 - Statistics and Probability for Science and Engineering I *Units: 4*
or crosslisted INDE 3601
or STAT 5601 / or crosslisted ENGR 5601.

Curricular Requirements (48 units)

Note: Students accumulating more than 8 units of work graded "I" may not register for courses applicable to the degree until the "I" grades are removed.

Required Courses (32 units)

- ENGR 5180 - Product/Process Design *Units: 4*
- ENGR 5200 - Systems Simulation *Units: 4*
- ENGR 5280 - Design and Management of Human Work Systems *Units: 4*
- ENGR 6200 - Project Management *Units: 4*
- ENGR 6300 - Applied Quality Assurance *Units: 4*

- ENGR 6400 - Research Methods in Engineering Management *Units: 4*
- FIN 6215 - Corporate Financial Management *Units: 4*
- MGMT 6130 - Enterprise Planning and Control *Units: 4*

Elective Courses (12 units)

Twelve (12) quarter units of graduate courses in Engineering, Business and Economics, Computer Science, Statistics, or related areas with advisor approval.

The following is a sample list of electives:

- ENGR 6150 - Production Planning and Control *Units: 4*
- ENGR 6350 - Reliability Engineering *Units: 4*
- ENGR 6420 - Systems Modeling *Units: 4*
- ENGR 6430 - Facilities Planning and Design *Units: 4*
- ENGR 6440 - Computer Integrated Manufacturing Systems *Units: 4*
- ENGR 6999 - Issues in Engineering *Units: 4*
- ENGR 6900 - Independent Study *Units: 1-4*
- ITM 6015 - Information Systems Development and Management *Units: 4*
- MGMT 6150 - Global Supply Chain Management *Units: 4*
- MGMT 6470 - Management of Technology and Innovation *Units: 4*
- MGMT 6560 - High Performance Management *Units: 4*

Capstone Experience (4 units)

ENGR 6800 Research in Engineering Management; ENGR 6899 Project; or pass the comprehensive examination and complete an additional 4-unit elective course. (*see Errata chapter for information regarding the capstone update*).

- ENGR 6800 - Applied Research in Engineering Management *Units: 4*
- ENGR 6899 - Project *Units: 1-4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the university requirements for graduation as described throughout this catalog. These include the 32-unit residence requirement, the five year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 grade point average, and the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Certificate (Graduate) Program

Construction Planning and Control Certificate

Department & Faculty Information

This certificate program consists of 16 units and is designed to give recognition to students who complete a curriculum emphasizing Construction Planning and Control. This is a curriculum designed for construction and construction-related professionals interested in expanding their horizons and career opportunities without committing to the masters degree program requiring 48 units. This certificate program offers a concentrated training in construction project management. The certificate is applicable towards a master's degree in Construction Management after the student applies, gains acceptance, and completes the remainder of the curriculum for the degree. Courses in Construction Cost Estimating, Construction Project Planning and Control-Computer Tools, Financial Decision Making and Reporting in Construction and Construction Safety emphasize the project management side of the profession.

Admission to the Program

The Certificate Program in Construction Project Planning and Control is open to graduates of accredited institutions who have a bachelor's degree in any construction related field and who have achieved a GPA of at least 2.50. Applicants failing to meet these criteria may petition the Selection Committee for a waiver of these requirements.

Prerequisites

- A baccalaureate degree in any construction related field from an accredited university with a minimum overall GPA of 2.5 (4.0 basis) in their undergraduate work,
- relevant work experience, and
- College Algebra and Trigonometry or equivalent level math courses.

Continued Participation in the Program

Students must achieve a minimum grade of "B" (3.0) in each required course for continued participation and pass a comprehensive written examination upon completion of the program.

Note: All the courses in the Construction Planning and Control Certificate are required in the M.S. Construction Management degree. If a student wishes to seek admission to and complete the graduate program after completing this certificate, all 16 units can be transferred and used in the master's. Sixteen is the maximum number of units a student can transfer into the M.S. Construction Management degree.

Required Courses (16 units)

- CMGT 6400 - Construction Cost Estimating *Units: 4*
- CMGT 6500 - Construction Project Planning and Control, Computer Tools *Units: 4*
- CMGT 6600 - Financial Decision Making and Reporting in Construction *Units: 4*
- CMGT 6800 - Construction Safety *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Construction Project Administration Certificate

Department & Faculty Information

This certificate program consists of 16 units and is designed to give recognition to students who complete a curriculum emphasizing Construction Project Administration. This is a curriculum designed for construction and construction-related professionals interested in expanding their horizons and career opportunities without committing to the masters degree program requiring 48 units. This certificate program offers a concentrated training in construction project administration. The certificate is applicable towards a master's degree in Construction Management after the student applies, gains acceptance, and completes the remainder of the curriculum for the degree. Courses in Legal Issues in Construction Management, Environmental Issues and Green Building, Construction Risk Management and Commissioning, and Current Issues in Construction Management emphasize the project administration side of the profession.

Admission to the Program

The Certificate Program in Construction Project Administration is open to graduates of accredited institutions who have a bachelor's degree in any construction related field and who have achieved a GPA of at least 2.50. Applicants failing to meet these criteria may petition the Selection Committee for a waiver of these requirements.

Prerequisites

- A baccalaureate degree in any construction related field from an accredited university with a minimum overall GPA of 2.5 (4.0 basis) in their undergraduate work,
- relevant work experience, and
- College Algebra and Trigonometry or equivalent level math courses.

Continued Participation in the Program

Students must achieve a minimum grade of "B" (3.0) in each required course for continued participation and pass a comprehensive written examination upon completion of the program. *Note that all the courses in the Construction Administration Certificate are required in the M.S. Construction Management degree. If a student wishes to seek admission to and complete the graduate program after completing this certificate, all 16 units can be transferred and used in the master's. Sixteen is the maximum number of units a student can transfer into the M.S. Construction Management degree.*

Required Courses (16 units)

- CMGT 6200 - Legal Issues in Construction Management *Units: 4*
- CMGT 6300 - Environmental Issues and Green Building *Units: 4*
- CMGT 6700 - Construction Risk Management and Commissioning *Units: 4*
- CMGT 6850 - Current Issues in Construction Management *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Engineering Management Certificate

Department & Faculty Information

Engineering Certificates

The Department of Engineering offers accelerated post-baccalaureate certificate programs in Engineering Management and Quality Management. The Engineering Management Certificate is designed for engineering practitioners who wish to expand their careers to management and want to acquire a basic understanding of the theory and fundamentals of management. The Quality Management Certificate is designed for engineers and scientists working in production facilities who are engaged in quality improvement projects and who wish to acquire a basic understanding of the fundamentals of quality management and the application of quality improvement techniques. In addition, these certificate programs offer advanced students currently enrolled in the B.S. in Engineering program an opportunity to broaden their employment options.

Prerequisite for enrollment in the Engineering Management Certificate or Quality Management Certificate programs: calculus background equivalent to MATH 1304 and MATH 1305, or a B.S. in Engineering or one of the other sciences.

Engineering Management (16 units)

Required Courses

- INDE 4180 - Product-Process Design *Units: 4*
- or*
- ENGR 5180 - Product/Process Design *Units: 4*

- ENGR 6200 - Project Management *Units: 4*
- ENGR 6300 - Applied Quality Assurance *Units: 4*
- MGMT 6115 - E-Commerce Enterprise Management *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

Quality Management Certificate

Department & Faculty Information

Engineering Certificates

The Department of Engineering offers accelerated post-baccalaureate certificate programs in Engineering Management and Quality Management. The Engineering Management Certificate is designed for engineering practitioners who wish to expand their careers to management and want to acquire a basic understanding of the theory and fundamentals of management. The Quality Management Certificate is designed for engineers and scientists working in production facilities who are engaged in quality improvement projects and who wish to acquire a basic understanding of the fundamentals of quality management and the application of quality improvement techniques. In addition, these certificate programs offer advanced students currently enrolled in the B.S. in Engineering program an opportunity to broaden their employment options.

Prerequisite for enrollment in the Engineering Management Certificate or Quality Management Certificate programs: calculus background equivalent to MATH 1304 and MATH 1305, or a B.S. in Engineering or one of the other sciences.

Quality Management (16 units)

Required Courses

- ENGR 5300 - Quality Engineering *Units: 4*

- ENGR 6300 - Applied Quality Assurance *Units: 4*
or completion of
- STAT 3503 - Statistical Inference II *Units: 4*
and
- STAT 6509 - Theory and Application of Regression *Units: 4*

- ENGR 6350 - Reliability Engineering *Units: 4*

- STAT 5601 - Introductory Statistics and Probability for Science and Engineering *Units: 4*
or completion of
- STAT 3401 - Introduction to Probability Theory I *Units: 4*
and
- STAT 3502 - Statistical Inference I *Units: 4*

Course Descriptions

Use this link to see all Course Descriptions available throughout this catalog.

School of Global Humanities and Cultural Studies

Department of English

Department of Ethnic Studies

Department of History

Department of Modern Languages and Literatures

Department of Philosophy

Liberal Studies Program

University Honors

The University Honors Program is open to any student who meets the criteria for admission. Individual departments may also develop honors programs. Departmental Honors Programs are upper division programs designed to provide special courses and advanced, independent reading and research for superior students in the individual majors. Contact the chair of the department for additional information.

University Honors Program
Office of Undergraduate Studies
Student Services and Administration Building, 4th Floor
Phone: (510) 885-3716
E-mail: bridget.ford@csueastbay.edu

Director: Bridget Ford (History)

Program Director

The director coordinates University Honors courses, as well as special events for University Honors students and faculty. The director tracks student progress and invites eligible students to join the program, giving notice to students who are failing to meet the program requirements and removing students from the program who fail to meet the program requirements after two quarters.

Non-Degree

University Honors Program

University Honors

Program Description

The University Honors Program provides outstanding students the opportunity for academic challenge by completing specialized courses, seminars and projects under the direction of faculty mentors. University Honors Students in good academic standing priority registration for most university classes, attend educational and social events with other Honors Students, and have exclusive use of the Main Library's University Honors Study Room. They are considered for periodic awards and scholarships. University Honors Students also receive recognition on their official transcripts and diplomas, and enjoy special acknowledgement at both the Honors Convocation and commencement ceremonies.

Program Learning Outcomes

Students who complete the University Honors Program will be able to:

- Demonstrate the ability to design, plan, and execute an original research or creative project that would meet professional standards in a specialized discipline or interdisciplinary field.
- Effectively communicate the methods, techniques, and findings of their original research or creative project in a written, oral, or visual format.

- Work collaboratively with persons from different fields of specialization to address complex challenges and everyday problems.
- Demonstrate responsible leadership skills through participating in one or more significant organizational roles in Honors curricular or co-curricular activities or service-learning fieldwork.

Admission

Admission to the program is open to:

- Undergraduate students admitted to the university with a minimum 3.60 cumulative GPA, and
- Students who have maintained a 3.60 cumulative GPA in their last 36 quarter (or equivalent semester) units of baccalaureate-level coursework.
- Students who have been invited to take an optional, specialized one-unit GS 1013 (designated as "Honors Colloquium"), in the Spring of their freshman year, as determined by the University Honors Director in consultation with General Studies.
- Students who intend to be enrolled at the university for at least four additional quarters, to ensure adequate time for completion of program requirements.

Program Course Requirements

Consult the University Honors Program Director for clarification and interpretation of course requirements.

To graduate from the program, every Honors student must complete:

- A minimum of four classes (each consisting of three or more course units) as Honors-designated courses. To earn the Honors designation for a particular course on their transcripts, students shall:
 - Design, plan, and execute an original research or creative project in consultation with the course instructor, who agrees to evaluate the honors project in addition to, and separate from, assignments and assessments for the course in which the student is enrolled. Honors-designated courses may be in the student's major or minor, as well as in General Education and elective courses.
 - Submit an instructor-approved contract for each course in which Honors projects will be completed to the University Honors Program Director for review and approval.
 - Earn a letter grade of "B" (3.0 earned grade point) or better (see: Grading and Academic Standards FAQ) in each Honors project to the satisfaction of the instructor of the course.
- GS 3099 Honors Leadership and Service in students' sophomore or junior years, with a letter grade of "B" (3.0 earned grade point) or better.

GS 3999 Honors Seminar in their senior year, with a letter grade of "B" (3.0 earned grade point) or better.

Additional breadth and eligibility requirements

Students must:

- Take two of the four required Honors-designated courses outside of the students' major and minor programs.
- Take Honors-designated courses with letter grades only. Credit/No Credit courses will not be accepted for Honors designation.
- Make progress towards program completion by taking at least one Honors-designated course per academic year with a letter grade of "B" or better.

- Maintain a cumulative GPA of 3.60 for all CSUEB coursework taken subsequent to acceptance into the University Honors Program. Students who fail to meet the eligibility requirements for two consecutive quarters will be disqualified from the program.
- Attend one or more special learning, professional development, or cultural events at CSUEB each quarter in which they are enrolled in the University Honors Program. Events sponsored by the Honors Student Council will be especially encouraged.

Early Registration

Excluding freshmen, all students in good standing in the University Honors Program, having completed one Honors-designated course, shall enjoy Early Registration for most classes.

Special Recognition

University Honors students will receive special recognition at the Honors Convocation and/or at commencement. University Honors students will also receive recognition on their transcripts and their diplomas, as well as a certificate of recognition from the program.

Online Degree Programs & Information

Online Degree Program State Authorization

Note: State and federal laws require colleges and universities to be authorized to offer online degree programs in states other than their own. At this time, CSU East Bay may not be authorized to offer online degree programs for students residing in certain states.

Please go to http://www20.csueastbay.edu/online/admissions-and-costs/state_authorization.html for further information.

About Online Learning at Cal State East Bay

Online Degree Programs

Online Classes Offered This Quarter

About Online Learning at Cal State East Bay

Cal State East Bay offers a number of online learning options. These include **selected online classes** for enrolled students in one of two differing formats:

- Online classes, in which 100% of the class communications and coursework are online, and exams are delivered either online via the Internet, on campus, or proctored at an off-site location.
- Hybrid classes, in which some classroom meetings are replaced by online activities.

Online Bachelor's degree completion programs, designed for enrolled and transferring students who have completed lower-division course requirements.

Success in online learning requires certain computer skills, as well as certain learning and class participation styles. Students should be:

- knowledgeable about creating, saving, uploading, and downloading electronic files and documents;
- experienced in the use of e-mail and the Internet;
- able to read and follow written directions carefully;
- willing to log into class at least three to four times a week;
- equipped with an up-to-date firewall and virus protection program installed on their personal computer;

- motivated self-starters with good time-management skills.

See the links below for more specific information about online classes and degrees.

Online Classes Offered this Quarter

You can view current online and hybrid course offerings at *MyCSUEB*.

Note: Please be sure to check the individual class "notes" for other possible important information about the class.

Online Degree Programs

Online Bachelor's Degree Completion Programs		
Degree and Option Links	Department Link	College Link
Ethnic Studies, Asian American Studies Option, B.A. Ethnic Studies, Genders and Sexualities in Communities of Color Option, B.A.	Department of Ethnic Studies	College of Letters, Arts, and Social Sciences
Hospitality and Tourism, B.S. Recreation, Recreation Management Option, B.S. Recreation, Recreation Therapy Option, B.S.	Department of Hospitality, Recreation and Tourism	College of Education and Allied Studies
Human Development, Adult Development and Gerontology Online Option, B.A. Human Development, Early Childhood Development Online Option, B.A. Human Development, Women's Development Online Option, B.A.	Department of Human Development and Women's Studies	College of Letters, Arts, and Social Sciences

Note: A BA/BS Degree Completion Program is for anyone who has completed their lower division general education breadth requirements. All major requirements will be taken completely online.

Online Master's Degree Programs and Options		
Degree and Option Links	Department Link	College Link
Education, Online Teaching and Learning Option, M.S.	Online Teaching and Learning Program	College of Education and Allied Studies
Educational Leadership, M.S.	Department of Educational Leadership	College of Education and Allied Studies
Health Care Administration, M.S.	Department of Public Affairs and Administration	College of Letters, Arts, and Social Sciences
Recreation and Tourism, M.S.	Department of Hospitality, Recreation and Tourism	College of Education and Allied Studies

Concord Campus Majors & Programs

Undergraduate Majors and Options, Concord Campus

Cal State East Bay offers a strong academic course of study with a real-world curriculum to prepare you for a lifetime of personal achievement and career success.

The University Catalog lists the program description, course names, numbers, descriptions, degree requirements, and career opportunities. The Department website gives detailed information about the academic department including degrees and programs, careers for majors, faculty information, course descriptions and departmental information.

Majors & Options	Department Information
Business Administration, B.S., (Corporate Management) +	College of Business and Economics
Education Leadership Graduate Programs	Department of Educational Leadership
Health Sciences *	Department of Nursing and Health Sciences
Liberal Studies, Liberal Arts Option, B.A. **+	Liberal Studies Program
Nursing	Department of Nursing and Health Sciences
Paralegal Studies Certificate	Continuing Education
Pre-Professional Health Academic Program	Continuing Education
Psychology, B.A.	Department of Psychology
Sociology, B.A. *+	Department of Sociology and Social Services
Teaching Credential	Department of Teacher Education

1.* May require students to take some classes online or at the Hayward Campus.

2.** Upper division portions of these majors can be completed via the Program for Accelerated College Education (PACE)

3.+ This is a degree completion program. The first two years of the program must be completed at Cal State East Bay's Hayward campus or another accredited College or University.

Academic Programs and Graduate Studies

Academic Programs & Graduate Studies (APGS), and Undergraduate Studies

Student Services Administration (SA) Building, Ste 4500 (APGS); Ste 1500 (UGS)

Office Hours: 8a.m.-5p.m., M-F

APGS: 510.885.3716

UGS: 510.885.2990

Donna Wiley, Associate Vice President, Academic Programs & Graduate Studies

Maureen Scharberg, Dean, Undergraduate Studies

Mission Statement

The Offices of Academic Programs & Graduate Studies, and Undergraduate Studies, are committed to upholding quality as it provides administrative leadership to implement policies for academic programs in service to the University's community of faculty, students and staff. Specifically, APGS/UGS provides administrative vision and direction, advocacy, and support services for programs that reach across academic boundaries: undergraduate education including general education, the freshman year experience and the University Honors Program; graduate education including graduate outreach and recruiting; interdisciplinary programs; curriculum development; student success initiatives; community college partnerships; accreditation; and university-wide testing and assessment.

Areas of Responsibility and Departments

Office of Graduate Studies

Articulation

Catalog

Curriculum and Policies

General Education

Program for Accelerated College Education - PACE

Interdisciplinary Studies Major and Certificate

Student Grade Appeal and Academic Grievance

Testing Office

University Honors Program

University Thesis

General Education: Interdisciplinary Studies and Special Certificates

Offices of Academic Programs and Graduate Studies

General Education Office: Student Services and Administration (SA) building, 1st Floor, Phone: (510) 885-2941

Interdisciplinary Studies and Special Certificates Office: Student Services and Administration (SA) building, 4th Floor, Ste 4500

Phone: (510) 885-3716

Important Notice: The Interdisciplinary Studies and Special Certificates programs are currently undergoing review. Students interested in pursuing the Interdisciplinary Studies B.A. or B.S. or a Special Certificate should contact Linda Beebe in the General Education Office, SA 1500 for forms and information.

Faculty

Nancy M. Thompson (History), Ph.D. Stanford University (Director, Undergraduate Studies and General Education)

Jennifer L. Eagan, Ph.D. Duquesne University (Coordinator, Interdisciplinary Studies and Special Certificates)

General Information

GS courses are interdisciplinary courses not housed in any department or college. They are primarily designed for General Education purposes.

About the Program

The purpose of the Interdisciplinary Studies Major and the Special Certificate programs is to allow students, with the advice and approval of knowledgeable faculty and administrators, to design their own academic programs tailored to their unique needs and interests.

At least two separate degree-granting programs must be involved. An undergraduate Interdisciplinary Studies Major must be approved no later than the time when the student has 60 quarter units of work remaining to complete for the degree, including at least 40 units in the Interdisciplinary Studies Major. This ensures that a significant portion of the program is planned in advance by the student and his/her faculty advisors. The diploma will read Interdisciplinary Studies Major In (program title).

The Interdisciplinary Studies Major program should not be seen as a device to avoid certain requirements of a regular major, nor as a means to gain admission to an impacted program.

Likewise, an Interdisciplinary Studies Major cannot be developed in areas such as architecture, agriculture, and home economics where the campus currently lacks the necessary faculty expertise and physical facilities. Finally, an Interdisciplinary Studies Major is not a self-study, independent study, or external degree program.

Program for Accelerated College Education (PACE)

Program for Accelerated College Education

Academic Programs and Graduate Studies/Academic Advising and Career Education

Student Services and Administration Building

PACE Office: SA 2300, 2nd Floor (located inside Academic Advising and Career Education)

Phone: (510) 885-PACE (7223)

Fax: (510) 885-4785

Email: paceoffice@csueastbay.edu

Website: www.csueastbay.edu/pace

Academic Director: Donna Wiley

Program Coordinator: Shannon Coskran

Program Description

PACE is an innovative program which enables working adult students to make accelerated progress toward a Bachelor of Arts degree with a major in either Human Development or Liberal Studies. PACE classes are the same as those taken by students pursuing their degrees through the traditional university format. The only difference is the carefully structured course sequence which includes only courses in the evening, weekend and/or online, as well as the dedicated academic advising for PACE students. The PACE Program is also available at the Cal State East Bay Concord Campus.

Convenient Locations

- Hayward Hills Campus
- Concord Campus

Career Opportunities

Graduates in Human Development enjoy a wide variety of professional career opportunities. Among these are business, consulting, counseling and social services, probation/corrections, and education. The Human Development major is excellent preparation for graduate programs in law, counseling, social work, clinical psychology, public administration, and business administration.

Liberal Studies graduates go on to a broad range of careers and occupations in community services, business, government, early childhood education and the elementary (K-8) teaching profession. The Liberal Studies major is also excellent preparation for law school and graduate work in numerous fields such as public administration and education.

Features

PACE students are provided with a curriculum roadmap consisting of 12 to 13 units per quarter that allows them to complete their degree in two years. All classes are offered evenings, weekends, or online for the convenience of the working adult. The Human Development major can be fully completed online. PACE students also have access to intensive advising services in AACE, and are eligible to apply for the Bernard Osher Reentry Scholarship.

Students who come into the program with all entry requirements met, including sufficient transfer units, may complete the B.A. or B.S. in a minimum of seven quarters.

PACE Priority: Seating is reserved for PACE students in designated classes through the first pass of regular registration. PACE registration privileges only apply to the first pass of registration. Students placed on a waitlist for a course will be taken in the order in which they were placed on the waitlist. Also, students who miss the first class may be dropped.

Preparation

The best preparation for entry into the PACE Program is the completion of lower division General Education requirements. PACE welcomes inquiries from community college counselors and prospective

students. Pre-admission advising for potential transfer students is available through pre-admission counselors at the Welcome Center. To schedule an appointment, call (510) 885-2256.

Specific PACE entry requirements are:

1. Acceptance for admission to Cal State East Bay must be completed before applying to the PACE program. For university admission information and criteria visit the Admission Office's website. To meet with a pre-admission counselor to find out if you meet the admission criteria or to learn more about the admission process, please visit their website.
2. Must be a newly admitted transfer student. PACE does not admit current students or a student that started at Cal State East Bay as a freshman.
3. Must be working at least 25 hours per week.
4. Must be 25 or older.
5. Must be willing to take a minimum of 8 units per quarter while enrolled at Cal State East Bay.
6. Lower division General Education course work must be completed for PACE admission. Please consult with a community college transfer advisor regarding CSU East Bay's lower division GE requirements.
7. Must pursue a major supported by PACE. **Currently PACE only supports Human Development and Liberal Studies majors.**

Students who have not completed the Cal State East Bay or PACE entry requirements are encouraged to do so, either at CSU East Bay or at their community college, and reapply.

Admission

Application to PACE is a two-step process. Prospective students must first apply to the university using the Calstate.edu/Apply online application. Students must then complete the PACE application, which is available online from the PACE website, www.csueastbay.edu/pace.

PACE applicants are evaluated for acceptance into the PACE program after they are admitted to the university. Students will be notified of their acceptance into the program by email. Students are normally admitted to PACE in Fall Quarter each year due to the cohort nature of the program. However, students may apply for other quarters and will be accepted into the program on a space available basis. Students who have not completed the PACE entry requirements are encouraged to do so, either at Cal State East Bay or at their community college, and reapply to the program when they are completed.

Program Structure and Requirements

PACE students are provided with a program curriculum roadmap that provides a quarter-by-quarter schedule of their program's course offerings. Students are expected to follow the roadmap as closely as possible, taking a minimum of eight units each quarter, or risk being discontinued from the PACE program. These roadmaps are available on the PACE website.

Major Requirements

See the Department of Human Development and Women's Studies chapter or Liberal Studies Program chapter.

University Honors

The University Honors Program is open to any student who meets the criteria for admission. Individual departments may also develop honors programs. Departmental Honors Programs are upper division programs designed to provide special courses and advanced, independent reading and research for superior students in the individual majors. Contact the chair of the department for additional information.

University Honors Program
Office of Undergraduate Studies
Student Services and Administration Building, 4th Floor
Phone: (510) 885-3716
E-mail: bridget.ford@csueastbay.edu

Director: Bridget Ford (History)

Program Director

The director coordinates University Honors courses, as well as special events for University Honors students and faculty. The director tracks student progress and invites eligible students to join the program, giving notice to students who are failing to meet the program requirements and removing students from the program who fail to meet the program requirements after two quarters.

Application & Admissions

Cal State East Bay welcomes students to apply to study at our university.

There are four steps to the application process for most prospective students:

1. Applicants must submit an online CSU application for admission at www.calstate.edu/apply
2. Applicants must submit all supplementary documents required such as transcripts and standardized test scores.
3. Cal State East Bay will determine an applicant's eligibility based on criteria discussed in this chapter.
4. The University will notify the student of the decision.

Application Information

Importance of Filing Complete, Accurate, and Authentic

Application Documents

Use of Social Security Number

Undergraduate Application Procedures

Application Procedures for Cal State East Bay

Application Filing Periods & Deadlines

Late Application

Application Acknowledgement

Evaluation of Admission Eligibility

Admission with Honors

Credit for Experience & Prior Learning

Impacted Programs

Determining Residency for Tuition

Nonresident Classification Appeal Process

Placement Exam Notification After Admission

Undergraduate Admission Information

Undergraduate Admission Requirements

Provisional Admission of First-time Freshman

Transfer Policies of CSU Campuses

California Community Colleges - GE Certification

Credit for Accredited Community Colleges

Transfer Requirements

Transferable Units through the CSU International Program

Transfer Student Provisions

Conditional Admission for Transfer Students

Transfer Credit Assessment

International Admission Information

International Admissions Office

Appeal of Admission Decision	Declaration of Objective	Center for International Education
Hardship Petitions	College Preparatory Subject Admission Requirements	International Admission Requirements
Re-Routing an Application	Advanced Placement	Application Filing Periods & Deadlines
General Admission Information	Credit for Continuing Education & Correspondence School Work	First-time Freshman
The Office of Admission	Credit for Military Training and USAFI	Transfer Students from Outside the U.S.
Admission Procedures & Policies	Credit for Other Collegiate Work	Academic Records
Veteran's Admission	Credit for Non-Collegiate Instruction	Financial Certification
Adult Students	Transfer-Student Admission Information	Other Non-U.S. Citizens
Educational Opportunity Program (EOP)	Transfer Evaluation System (TES)	
Waiver of Foreign Language Subject Requirement		

Application Information

Importance of Filing Complete, Accurate, and Authentic Application Documents

Cal State East Bay advises prospective students that they must supply complete and accurate information on the application for admission, residency questionnaire, and financial aid forms. Further, applicants must, *when requested*, submit authentic and official transcripts of all previous academic work attempted.

Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of registration or academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

Use of Social Security Number

Applicants are required to include their correct social security numbers in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code (26 U.S.C. 6109). The University uses the social security number to identify students and their records including identification for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. Also, the Internal Revenue Service requires the University to file information returns that include the student's social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. This information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes.

If the student is a taxpayer who claims Hope Scholarship or Lifetime Learning tax credit, the student is required to provide Cal State East Bay with their name, address, and Taxpayer Identification Number.

Undergraduate Application Procedures

Prospective students applying for part-time or full-time undergraduate programs of study must submit a completed undergraduate application. The \$55 nonrefundable application fee should be paid on-line at the time of application via credit card, e-check, or PayPal and may not be transferred or used to apply to another term. An alternate major may be indicated on the application. The applications of persons denied admission to an impacted campus may be re-routed to another campus at no cost, but only if the applicant is CSU eligible.

Application Procedures for Cal State East Bay

All students

In addition to the above procedures, the following governs admission to both the Hayward Hills and Concord campuses. All categories must complete an undergraduate admission application that can be found at www.calstate.edu/apply:

- High school graduates.
- Community college transfer students.
- Cal State East Bay students who have not been enrolled for three consecutive terms.

- Students who have a degree from a college or university and want a second baccalaureate degree if applying to an eligible program.
- Students who have been enrolled in Continuing Education Special Sessions Programs and Open University.
- Students who have attended Cal State East Bay as visiting students from another university.
- Students who want to audit classes. Students must complete the "Request for Audit Grade" form available from the Cal State East Bay SEIC - (SAS,SAS) Student Enrollment Information Center on the first floor of the Student Services and Administration Building on the Hayward Hills campus.
- Students who were previously admitted to Cal State East Bay for a particular term but did not enroll.

An applicant must complete all required information, including the Social Security number (see: *Use of Social Security Number* section above). Be certain to accurately enter all requested academic information as any misrepresentation could result in an offer of admission being rescinded. Applicants must also submit all required items indicated on the student's **MyCSUEB To Do List** found in the student center at <https://my.csueastbay.edu> by the deadline provided. An applicant who wants to pursue a major in nursing should see the Nursing, Pre-Licensure Option, B.S. chapter for special admission requirements. The bachelor's degree in Music requires students to audition in order to determine admission. For more information regarding majoring in Music, see the Music, B.A. chapter for special admissions requirement.

If a student is uncertain whether they are required to apply, they can contact the Office of Admission at (510) 885-3500 or learn more about rules and restrictions at www.csueastbay.edu/admission.

Note: They are subject to change without prior notice if necessary so that university policies are consistent with those established by the Trustees of The California State University. It is important for students to take time to read this catalog and become familiar with the specific policies and procedures of Cal State East Bay and the CSU system. This will help the student to understand their rights and responsibilities, as well as the rights and responsibilities of the university.

Application Filing Periods & Deadlines

Application deadlines are dates by which you must submit your application to Cal State Apply. Published deadlines are subject to change. Apply early since enrollment may be limited for some programs. Application filing periods are also listed at www.csueastbay.edu/prospective/how-to-apply/application-and-document-deadlines

UNDERGRADUATE APPLICATION FILING PERIODS			
(Not all campuses/programs are open for admission to every term.)			
Terms	Applications First Accepted	Initial Filing Period	Filing Period Duration

Summer Semester or Quarter <i>(Some campuses do not admit students to summer term.)</i>	February 1	February 1-28 of current year	Each non-impacted campus accepts applications until capacities are reached. Many campuses limit undergraduate admission in an enrollment category due to overall enrollment limits. If applying after the initial filing period, consult the campus admission office at (510) 885-3500 for current information. Similar information is conveniently available at: <i>CALSTATE Apply</i>
Fall Semester or Quarter	October 1	October 1 - November 30 of previous year	
Winter Quarter	June 1	June 1-30 of previous year	
Spring Semester or Quarter	August 1	August 1-31 of previous year	

Application deadlines are the dates by which you must submit your application to www.calstate.edu/apply. Published deadlines are subject to change.

Some graduate programs may have earlier application deadlines and/or may not accept applications every quarter. Check with the department for complete details.

Be sure to review the deadlines for:

- Freshman students: <http://www.csueastbay.edu/prospective/how-to-apply/freshman-admission/index.html>
- Transfer students: <http://www.csueastbay.edu/prospective/how-to-apply/transfer-student-admission/index.html>

Please Note: application deadlines for the following populations are different from the undergraduate application deadlines listed above:

- Graduate and Credential students: <http://www.csueastbay.edu/prospective/how-to-apply/application-and-document-deadlines/graduate-and-credential.html>
- International students: <http://www.csueastbay.edu/prospective/how-to-apply/application-and-document-deadlines/international.html>
- University Extension students (formerly Continuing Education): <http://www.csueastbay.edu/prospective/how-to-apply/application-and-document-deadlines/university-extension.html>

Some academic and support service programs have supplemental application forms with specific deadlines. Check with the department for complete details.

- Educational Opportunity Program (EOP)
- Nursing B.S.
- Graduate degree programs

Late Application

Late applications are strongly discouraged unless the applicant can demonstrate extenuating circumstances beyond their control for not submitting the application during the initial filing period AND that the University still has the capacity to accept more students.

Application Acknowledgement

On-time applicants (applicants who applied within the initial filing period) may expect to receive an acknowledgment from the campuses to which they have applied within two to four weeks of filing the application. The notice may also include a request that applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates that applicants meet CSU admission requirements, and in the case of admission impaction, supplemental criteria for admission to an impacted program. Unless specific written approval/confirmation is received, an offer of admission is not transferable to another term or to another campus.

After Cal State East Bay's Admission Office has received all necessary documents and completed its review, the applicants will be notified of their admission and residency status.

Note: The University reserves the right, however, to select its students and to deny admission to the University, or to any of its programs, based upon the University's determination, at its sole discretion, of an applicant's suitability and the best interests of the University.

Evaluation of Admission Eligibility

After an applicant receives an acknowledgment from Cal State East Bay that their application has been received, they will be requested to submit required documents (i.e. official transcripts, test scores, etc.), if they have not previously done so. It is the applicant's responsibility to see that all official transcripts are sent directly to the Office of Admission from **each** previous institution attended by the deadline specified on the student's *MyCSUEB To Do List*. Neither evaluation of transcripts and test scores nor determination of eligibility is possible until all required documents have been received.

First-time freshmen must submit official transcripts of high school work (grades 9-12). Scores from the ACT or SAT examinations are required. Although first-time freshmen whose high school grade point average is at least 3.00 (3.61 for nonresidents) will have the test score requirement waived, it is

encouraged that all students should submit ACT/SAT scores for English and math placement review. If an applicant is still in high school, they must submit transcripts of work as instructed and a final transcript after graduation. . It is important to note that high school grade point average calculation will include only those grades earned in approved college preparatory courses taken during the 10th, 11th, and 12th grades.

Undergraduate transfer, graduate, or post-baccalaureate applicants must submit an official transcript from each college or university previously attended by the deadline specified on the student's *MyCSUEB To Do List*, regardless of length of attendance, and even if no work was completed.

Transfer students with fewer than 90 transferable quarter units (60 semester units) will be denied as Cal State East Bay does not accept lower division transfer applications. In the rare instances where an exception is granted for an applicant to be reviewed as lower division transfer, the applicant must submit official high school transcript showing courses and grades earned during high school (grades 9-12), as well as scores from the ACT or SAT examinations. If the applicant's high school grade point average is at least 3.00 (3.61 for nonresidents) the test score requirement will be waived. Lower division applicants must meet first-time freshman admission requirements in addition to holding at least a C average in all transfer college work. International students or non-U.S. citizens may be required to submit additional records. See International Admission in this chapter.

Note: The University has the obligation to determine whether a transcript will be accepted as official. All transcripts and records submitted for admission or readmission become the property of the University. Students may access their academic records according to policies and procedures established by the campus. Applicants must submit official transcripts from all colleges and universities they have attended so their entire academic experience can be evaluated. Failure to do so will be grounds for denial of admission, readmission or dismissal from the University.

Appeal of Admission Decision

Section 89030.7 of the California Education Code requires that the California State University establishes specific requirements for appeal procedures for a denial of admission. Each CSU campus must publish appeal procedures for applicants denied admission to the University. The procedure is limited to addressing campus decisions to deny an applicant admission to the University.

Admissions appeal procedures must address the basis for appeals, provide 15 business days for an applicant to submit an appeal, stipulate a maximum of one appeal per academic term, provide specific contact information for the individual or office to which the appeal should be submitted, and indicate a time estimate for when the campus expects to respond to an appeal. The appeal procedures must be included in all denial of admission notifications to students, and must also be published on the campus website.

If the applicant does not meet published admission eligibility standards, the student may petition via Admissions Appeals Procedures for reconsideration. There is a limit on the number of exceptions to published admission criteria for which the campus may grant an exception. The Committee, therefore, considers a number of factors, normally favoring applicants who are close to qualifying and who are upper division students. Instructions for submitting an appeal are provided to eligible denied students.

If the applicant comes from a disadvantaged background or is a veteran, they may be considered under special criteria in addition to that stated above.

Hardship Petitions

The campus has established procedures for consideration of qualified applicants who would be faced with extreme hardship if not admitted. Petitioners should submit an appeal form at <http://www.csueastbay.edu/admissionpetitions> regarding specific policies governing hardship admission.

For more information contact the Office of Admission at 510.885.3500 or admissionpetitions@csueastbay.edu

Re-Routing an Application

If for some reason an applicant cannot be accommodated at Cal State East Bay, their application will be redirected to their second choice CSU campus unless they are seeking admission to a system-wide impacted program or the alternate campus has reached its capacity in the applicant's chosen program of study.

General Admission Information

General Admission

Requirements for admission to Cal State East Bay are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Code of Regulations. Complete information is available at: www.calstate.edu/apply

Electronic versions of the CSU applications for admission are accessible at www.calstate.edu/apply. The Cal State Apply system allows students to browse through general information about CSU's 23 campuses, view multimedia campus presentations, send and receive electronic responses to specific questions, and apply for admission and financial aid.

Applying online via www.calstate.edu/apply is expected unless electronic submission is impossible. An acknowledgement will be sent when an online application has been submitted. Application in "hard copy" form may be obtained online via www.calstate.edu/apply as a portable data format (PDF). Application forms (in PDF) may also be downloaded from www.calstate.edu/sas/publications. (Paper applications should be mailed to the campus admission office.) To discuss a personal situation preventing electronic application submission, contact the Office of Admission at (510) 885-3500.

Veteran's Admission

Veterans who meet the admission requirements may attend under full veterans' benefits. Information concerning veterans' programs is outlined at www.csueastbay.edu/veterans.

First-time freshmen and lower division applicants who are California resident veterans of the U.S. Armed Forces, but who do not meet regular entrance requirements may be considered for undergraduate admission if, in the university's judgment, the veteran has the potential to perform satisfactorily at the collegiate level. To be considered under this provision, veterans must have served 181 days active duty since 1955 with a discharge or separation under conditions other than dishonorable.

If an applicant wishes to be considered under this provision, the application for admission must include supporting documents, including separation papers (DD 214), and a letter petitioning special consideration. Transcripts and test scores are also required.

Adult Students

As an alternative to regular admission criteria, an applicant who is 25 years of age or older may be considered for admission as an adult student if he or she meets all of the following conditions:

- Possesses a high school diploma (or has established equivalence through either the General Educational Development or California High School Proficiency Examinations)
- Has not been enrolled in college as a full-time student for more than one term during the past five years
- If there has been any college attendance in the last five years, has earned a C average or better in all college work attempted

Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student and will include an assessment of basic skills in the English language and mathematical computation.

If an applicant is seeking enrollment as an adult student, they must submit a statement to the Office of Admission outlining the factors and experiences which the student believes indicates their probable academic success.

The Office of Admission

The Office of Admission is responsible for all domestic admission services for new students. International students on F or J visas (and applicants with transcripts issued by schools outside the United States) are served by the International Admissions Office.

All applicants should use the student online self-service portal *MyCSUEB* at <https://my.csueastbay.edu> to check admission status and required documents.

Provisional (Conditional) Admission of First-time Freshman

Cal State East Bay may provisionally admit first-time freshman applicants based on their academic preparation through the junior year of high school and planned coursework for the senior year. The campus will monitor the final terms of study to ensure that admitted students complete their secondary school studies satisfactorily, including the required college preparatory subjects, and graduate from high school. Students are required to submit an official transcript after graduation to certify that all course work has been satisfactorily completed. Official high school transcripts must be received prior to deadline set by the University. In no case may documentation of high school graduation be received any later than the census date for a student's first term of CSU enrollment. *Note: A campus may rescind admission decisions, cancel financial aid awards, withdraw housing contracts and cancel any University registration for students who are found to be ineligible after the final transcript has been evaluated.*

Applicants will qualify for regular (non-provisional) admission when the University verifies that they have graduated and received a diploma from high school, have a qualifiable minimum eligibility index, have completed the comprehensive pattern of college preparatory "a-g" subjects, and, if applying to an impacted program or campus, have met all supplementary criteria.

The CSU uses only the ACT composite score or the mathematics and critical reading scores on the old SAT, or mathematics and Evidence-Based Reading and Writing scores on the new SAT in its admission eligibility equation. The SAT or ACT writing scores are not currently used by CSU campuses.

Subject requirements - The California State University requires that first-time freshman applicants complete, with grades of C or better, a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school.

- 2 years of social science, including 1 year of U.S. history, or U.S. history and government
- 4 years of English
- 3 years of math (algebra, geometry and intermediate algebra)
- 2 years of laboratory science (1 biological & 1 physical, both must have laboratory instruction)
- 2 years in the same foreign language (subject to waiver for applicants demonstrating equivalent competence)
- 1 year of visual and performing arts: art, dance, drama/theater, or music
- 1 year of electives: selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts or other courses approved and included on the UC/CSU "a-g" list

The California Promise

The California Promise Program enables a specific number of campuses of the California State University (CSU) to establish pledge programs for entering first-time students who are both interested and able to

complete baccalaureate degrees in 4-years. All campuses have established programs for students with Associate Degrees for Transfer from any California Community College to complete their baccalaureate degrees in 2-years. The program is limited to students who are residents of California.

Students who commit to enter either the 4-year or 2-year pledge will be given a priority registration appointment for each state-supported enrollment period and will be provided with routine and thorough academic advisement. In order to remain in the program, students must meet with their advisors as prescribed, develop an enrollment plan, and complete 30 semester units of quarter equivalent within each academic year, including summer. Participating campuses may stipulate other important requirements as well. Interested students entering the CSU in the fall 2017 term should contact the campus offices or visit www.calstate.edu/sas/california-promise.

Credit for Experience and Prior Learning

No unit credit is allowed toward the bachelor's or master's degrees for practical experience at Cal State East Bay. An exemption allowed for experience will not carry units of advanced standing or diminish the number of units required for graduation.

Impacted Programs

The CSU designates programs as impacted when more applications from regularly eligible applicants are received in the initial filing period (October and November for fall terms, June for winter terms, August for spring terms, February for summer terms) than can be accommodated. Some programs are impacted at every campus that they are offered; others are impacted only at a few campuses. Candidates for admission must meet all of the campus' specified supplementary admission criteria if applying to an impacted program or campus.

The CSU will announce during the fall filing period those campuses or programs that are impacted. Detailed information on campus and program impaction will be available at the following websites:

- www.calstate.edu/impactioninfo.shtml
- www.calstate.edu/sas/impaction-campus-info.shtml

Campuses will communicate supplementary admission criteria for all impacted programs to high schools and community colleges in their service area and will disseminate this information to the public through appropriate media. This information will also be published at the CSU campus individual website and made available online at www.calstate.edu.

Applicants must file applications for admission to an impacted program during the initial filing period. Applicants who wish to be considered in impacted programs at more than one campus should file an application at each campus for which they seek admission consideration.

Determining Residency For Tuition

University requirements for establishing residency for tuition purposes are independent from those of other types of residency, such as for tax purposes, or other state or institutional residency. These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student should pay University fees on an in-state or out-of-state basis. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residency Requirements. These laws governing residency for tuition purposes at the California State University are California Education Code sections 68000-68085, 68120-68133, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900-41916. This material can be viewed on the Internet by accessing the California State University's website at www.calstate.edu/GC/resources.shtml.

Each campus's Admissions Office is responsible for determining the residency status of all new and returning students based on the Application for Admission, Residency Questionnaire, Reclassification Request Form, and, as necessary, other evidence furnished by the student. A student who fails to submit adequate information to establish eligibility for resident classification will be classified as a nonresident.

Generally, establishing California residency for tuition purposes requires a combination of physical presence and intent to remain indefinitely. An adult who, at least 366 days prior to the residency determination date for the term in which enrollment is contemplated, can demonstrate both physical presence in the state combined with evidence of intent to remain in California indefinitely may establish California residency for tuition purposes. A minor normally derives residency from the parent(s) they reside with or most recently resided with.

Evidence demonstrating intent may vary from case to case but will include, and is not limited to, the absence of residential ties to any other state, California voter registration and voting in California elections, maintaining California vehicle registration and driver's license, maintaining active California bank accounts, filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting a residence where permanent belongings are kept, maintaining active memberships in California professional or social organizations, and maintaining a permanent military address and home of record in California.

Nonresident students seeking reclassification are required to complete a supplemental questionnaire that includes questions concerning their financial independence. Financial independence is required, in addition to physical presence and intent, to be eligible for reclassification. Financial independence is established if in the calendar year the reclassification application is made and in any of the three calendar years preceding the reclassification application the student:

- has not and will not be claimed as an exemption for state and federal tax purposes by his/her parent;
- has not and will not receive more than seven hundred and fifty dollars (\$750) per year in financial assistance from his/her parent; and
- has not lived and will not live longer than six (6) weeks in the home of his/her parent.

Note: A nonresident student who has been appointed as a graduate student teaching assistant, a graduate student research assistant, or a graduate student teaching associate on any CSU campus and is employed on a 0.49 or more time basis is exempt from the financial independence requirement.

Non-citizens establish residency in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States.

Exceptions to the general residency requirements are contained in California Education Code sections 68070-68085 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41906-41906.6, 41910 and include, but are not limited to, members of the military and their dependents, certain credentialed employees of school districts and most students who have attended three or more years of high school (grades 9-12) in California or attained credits earned in California from a California high school equivalent to three or more years of full-time high school coursework and a total of three or more years of attendance in California elementary schools, California secondary schools, or a combination of those schools, and graduated from a California high school or attained the equivalent of graduation. Whether an exception applies to a particular student can only be determined after the submission of an application for admission and, as necessary, additional supporting documentation. Because neither campus nor Chancellor's Office staff may give advice on the application of these laws, applicants are strongly urged to review the material for themselves and consult with a legal advisor.

Note: Students classified as nonresidents may appeal a final campus decision within 120 days of notification by the campus. A campus residency classification appeal must be in writing and submitted.

Residency determination dates are set each term. They are:			
QUARTER TERM CAMPUSES		SEMESTER TERM CAMPUSES	
Fall	September 20	Fall	September 20
Winter	January 5	Winter *	January 5
Spring	April 1	Spring	January 25
Summer	July 1	Summer	June 1
*Applies only to winter term at CSU Stanislaus			

CalState TEACH operates on a trimester system. The residency determination dates for CalState TEACH are as follows:

- Fall - September 20
- Spring - January 5
- Summer - June 1

Nonresident Classification Appeal Process

Students classified as nonresidents may appeal a final campus decision within 120 days* of notification by the campus. A campus residency classification appeal must be in writing and submitted to:

The California State University*
Office of General Counsel
401 Golden Shore, 4th Floor
Long Beach, CA 90802-4210

The Office of General Counsel can either decide the appeal or send the matter back to the campus for further review. Students incorrectly classified as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is also subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations.

Resident students who become nonresidents or who no longer meet the criteria for an exception must immediately notify the Admissions Office. Changes may have been made in the rate of nonresident tuition and in the statutes and regulations governing residency for tuition purposes in California between the time this information is published and the relevant residency determination date. Students are urged to review the statutes and regulations stated above.

**Note: A proposal to change the contact information and notification period at the CSU Office of General Counsel is pending and will be available after March 2017.*

Placement Exam Notification After Admission

After admission, each undergraduate student is sent a packet which indicates that taking the EPT and ELM exams are requirements which should be fulfilled at the next offering of the test. If you fail to take the EPT and/or the ELM tests before your first term of enrollment, a hold will be placed on your registration until you do take the test(s).

Programs Leading to Licensure & Credentialing

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing

requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from. More information at Cal State East Bay may be obtained through the Office of University Diversity.

Note: Students in Biological Science, Educational Psychology, Engineering, Kinesiology, Nursing, and Teacher Education, in particular should be aware of these provisions.

Undergraduate Admission Information

Undergraduate Admission Requirements

Freshman Requirements

Generally, applicants will qualify for consideration for first-time freshman admission if they meet the following requirements:

- Have *graduated* from high school, have earned a Certificate of General Education Development (GED) or have passed the California High School Proficiency Examination (CHSPE);
- Have a qualifiable minimum eligibility index (see section on Eligibility Index); and
- Have completed with grades of C or better each of the courses in the comprehensive pattern of college preparatory subject requirements also known as the "a-g" pattern (see: *College Preparatory Subject Admission Requirements*).

Eligibility Index

The eligibility index is the combination of the high school grade point average and scores on either the ACT or the SAT. Grade point averages (GPA) are based on grades earned in courses taken during the final three years of high school. Included in calculation of GPA are grades earned in all college preparatory "a-g" subject requirements, and bonus points for approved honors courses. Up to eight semesters of honors courses taken in the last three years of high school, including up to two approved courses taken in the tenth grade can be accepted. Each unit of A in an honors course will receive a total of 5 points; B, 4 points; and C, 3 points.

A CSU Eligibility Index (EI) can be calculated by multiplying a grade point average by 800 and adding your total score on the SAT exam (mathematics and critical reading on the old SAT, or mathematics and Evidence-Based Reading and Writing on the new SAT). For students who took the ACT, multiply the grade point average by 200 and add ten times the ACT composite score. Persons who are California high school graduates (or residents of California for tuition purposes) need a minimum index of 2900 using the SAT or 694 using the ACT. The Eligibility Index Table illustrates several combinations of required test scores and averages. The university has no current plans to include the writing scores from either of the admissions tests in the computation of the CSU Eligibility Index. *Note: The minimum Eligibility Index requirement for admission to the Fall 2018 term will increase to 2950 using the SAT.*

Persons who neither graduated from a California high school nor are a resident of California for tuition purposes, need a minimum index of 3502 (SAT) or 842 (ACT). *Note: The minimum Eligibility Index requirement for admission to the Fall 2018 term will increase to 3570 using the SAT.*

Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section. An applicant with a grade point average of 3.00 or above (3.61 for nonresidents) is not required to submit test scores. However, all applicants for admission are *urged to take the SAT or ACT and provide the scores of such tests to each CSU to which they seek admission.* Campuses use these test results for advising and placement purposes and may require them for admission to impacted majors or programs. Impacted CSU campuses require SAT or ACT scores of all applicants for *freshman* admission.

ACT & SAT Eligibility Index Tables (2017/18)

Educational Opportunity Program (EOP)

Established in 1969, the Educational Opportunity Program (EOP) provides admission and retention support services to low-income and educationally disadvantaged California residents who demonstrate the motivation and potential to succeed in college. EOP identifies and admits students who have the potential to succeed at California State University campuses, but who have not achieved their educational goals because of economic and/or educational background. EOP provides students with the resources, tools and skills to ensure academic and personal success through a variety of academic support services. These services provided by EOP include recruitment, preadmission counseling, special admissions, a Summer Bridge program (for entering EOP freshmen), specialized orientation sessions, academic advisement, personal counseling, skill-enhancement workshops, career guidance, peer advising, support groups, social/cultural activities, referral services, and EOP grants for eligible students.

EOP accepts students who qualify for regular admission, as well as a limited number of students who do not meet regular admission criteria. Only low-income and educationally disadvantaged undergraduate students who need admission assistance and/or support services to succeed at Cal State East Bay are admitted to EOP. Additionally, students must be first generation, California residents or AB 540, and meet the income eligibility criteria. They must also demonstrate academic potential and motivation to succeed.

To apply for admission to the program, prospective students must complete the online *Cal State Apply* application for Undergraduate Admission and check the appropriate box for EOP services. Once the CSUEB application is submitted (online), EOP applicants will receive an online EOP link and have access to complete the EOP Applicant Information Form and two EOP recommendation forms. Students must have all three documents submitted in order for their EOP application to be complete.

Flash Note: CSUMentor will be changing to Calstate.edu/Apply beginning June 1, 2017.

EOP is a high-demand program which only accepts applications for Fall term from applicants new to the CSU system. Currently enrolled and/or previously enrolled students (not formerly in an EOP CSU program) are not eligible to apply. Applicants who submit all required documents will be reviewed and if selected, will be admitted to EOP. All EOP freshmen receiving exception admission are required to attend the EOP Summer Bridge program as a condition of their admission for Fall term.

For assistance or for further information about EOP, please visit the EOP Office at the Library Complex (LI), Room 2500, or online at www.csueastbay.edu/eop. Prospective applicants can also email us at eopadmissions@csueastbay.edu or call 510-885-4683.

Admission with Honors

Students who were admitted to the university and have a minimum of 3.60 GPA should look into applying for the University Honors Program. Students in the program and are in good standing gain early registration for classes among other benefits. More information about the University Honors Program, including requirements for entrance into the program, is located at www.csueastbay.edu/honors.

Honors Courses

Grades earned in up to eight semester courses designated as honors courses in approved subjects (taken in the last two years of high school), receive additional points in grade point average calculations. Each unit of "A" in approved courses will receive a total of 5 points; "B," 4 points; "C," 3 points; "D," 1 point; and none for "F" grades. (Up to two 11th grade IB, AP, or honors courses with 11th or 12th grade course content taken in 10th grade may also receive bonus points.)

Declaration of Objective

When a student applies for undergraduate admission they may state an objective (major and degree) to be pursued. The applicant may also be admitted as an "Undeclared Student." In addition, once the student has been enrolled at the university, faculty and staff of the Academic Advising and Career Education Center are available to assist the student in selecting a major and degree program. The responsibility for meeting the specific requirements of a program or major rests with the student, but the advisor or the department chair of their selected major will help the student determine the courses remaining for completion of major requirements. AACE - (O&A,A) Academic Advising and Career Education (AACE) may also assist the student in determining General Education requirements.

Waiver of Foreign Language Subject Requirement

If an applicant can demonstrate competency in a language other than English that is equivalent to or higher than that expected of students who have completed two years of language other than English study, the applicant may be allowed a waiver of this language requirement. Applicants should consult their high school counselor, or the Office of Admission for more information.

College Preparatory Subject Admission Requirements

The California State University requires that first-time freshman applicants complete, with grades of C or better, a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school.

- 2 years of social science, including 1 year of U.S. history, or U.S. history and government;
- 4 years of English;
- 3 years of math (algebra, geometry and intermediate algebra);
- 2 years of laboratory science (1 biological & 1 physical, both must have laboratory instruction);
- 2 years in the same foreign language;
- 1 year of visual and performing arts in the same discipline: art, dance, drama/theater, or music;
- 1 year of electives: selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts or other courses approved and included on the UC/CSU "A to G" list.

Advanced Placement

Cal State East Bay grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of three or better will be granted up to six semester units (nine quarter units) of college credit. (See Requirements, Exams & Testing and Registration & Enrollment chapters for additional information.)

Credit for Continuing Education and Correspondence School Work

Students may count a maximum of 36 quarter (24 semester) units of extension credit and correspondence school work toward a baccalaureate degree at Cal State East Bay. Any such units not earned at Cal State East Bay must be earned in courses deemed acceptable for Cal State East Bay degrees and course units must come from accredited institutions that accept the units toward their own degrees.

No extension or correspondence school credit may be applied toward the residency requirement for undergraduates or graduates. Courses taken in Cal State East Bay Special Sessions programs may be

applied toward residency. All transferable extension and correspondence work will be used for determination of the undergraduate grade point average.

Credit for Military Training, Occupation, and Courses

Cal State East Bay grants nine units of elective credit toward a baccalaureate degree for a student who completed basic training and was honorably discharged from military service of the United States in accordance with the recommendation of the American Council on Education.

Note: Credit is not given for completion of the six month reserve training programs.

Commissioned officers may receive an additional nine units, which may be considered upper division credit. In order to receive such credit applicants must present written certification from a recognized military authority, such as papers from a military separation center (service form DD-214 or DD-295) or a Joint Services Transcript (JST). Credit for specific courses may be allowed if the student has satisfactorily completed equivalent study in a military service school. The guidelines of the American Council on Education are followed in determining eligibility.

Cal State East Bay is a Service member Opportunity College (SOC).

Credit for Other Collegiate Work

If students wish credit for work taken at another institution while in continuing student status at Cal State East Bay, they must, upon completing the work, have an official transcript sent to the Office of the Registrar.

Credit for Non-Collegiate Instruction

Cal State East Bay grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate degree, which has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The numbers of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

Note: Lower division, occupational courses designed to train technicians are not acceptable for university credit. Credit granted for non-collegiate instruction is not generally applied to general education or major requirements.

Transfer-Student Admission Information

Transfer Evaluation System (TES)

TES, which is similar to ASSIST, hosts multiple agreements that have been established for private and out-of-state institutions. Visit TES.CollegeSource.com

Transfer Policies of CSU Campuses

Most commonly, college level credits earned from an institution of higher education accredited by a regional accrediting agency are accepted for transfer to campuses of the CSU; however, authority for decisions regarding the transfer of undergraduate credits is delegated to each CSU campus.

California Community Colleges

California Community Colleges and other authorized certifying institutions can certify up to 39 semester (58.5 quarter) units of General Education-Breadth (GE-Breadth) or 37 semester (55.5 quarter) units of the Intersegmental General Education Transfer Curriculum (IGETC) for transfer students to fulfill lower-division general education requirements for any CSU campus prior to transfer.

"Certification" is the official notification from a California Community College or authorized institution that a transfer student has completed courses fulfilling lower-division general education requirements. The CSU GE-Breadth and the Intersegmental General Education Transfer Curriculum (IGETC) certification course lists for particular community colleges can be accessed at www.assist.org.

CSU campuses may enter into course-to-course or program-to-program articulation agreements with other CSU campuses and any or all of the California community colleges, and other regionally accredited institutions. Established CSU and CCC articulations may be found on www.assist.org. Students may be permitted to transfer no more than 70 semester (105 quarter) units to a CSU campus from an institution which does not offer bachelor's degrees or their equivalents, for example, community colleges. Given the university's 30-semester (45-quarter) unit residency requirement, no more than a total of 90-semester (135-quarter) units may be transferred into the university from all sources.

California Community Colleges GE Certification

Under Chancellor's Executive Order No. 1033, up to 60 quarter (40 semester) units of the CSU General Education-Breadth Requirements may be certified by California Community Colleges and other CSU campuses. Certification is not automatic for the A.A. in University Studies programs.

Note: Even though your certification from a California Community College (CSU G.E. pattern for CSU Intersegmental General Education Transfer Education Transfer Curriculum-IGETC) or another CSU campus may show more than the maximum number of certifiable units, you must still complete a minimum of 12 upper division residence G.E. units at Cal State East Bay.

For example, if your catalog rights for graduation are governed by this catalog, you must complete the following:

- Area B6, an upper division Science (life or physical science) course of at least 4 units selected from the Area B6 list;
- Area C4, an upper division Humanities course of at least 4 units selected from the Area C4 literature/history/philosophy list;
- Area D4, an upper division Social Science course of at least 4 units selected from the Area D4 list;
- Lifelong Understanding G.E. requirement may be satisfied with a certified Lifelong Understanding transfer course from a California Community College. If you do not transfer with this requirement fulfilled, you may satisfy it with a lower- or upper-division course selected from the Area F list, Performing Arts/Activities, or by a transfer course(s) that meets the CSUEB criteria.
- The Cultural Groups/Women General requirement may be satisfied simultaneously with one of the above lower or upper division Area G.E. requirements, or as a separate course selected from Cal State East Bay's Cultural Groups/Women list. This requirement can also be satisfied by a lower division G.E. transfer course that meets the CSUEB criteria; and
- The second composition requirement for transfer students, is satisfied with ENGL 1002 (College Writing II), or an equivalent transfer course. If the course you are using to clear Area A3, Critical Thinking, is on the IGETC Critical Thinking list, this same course can be used to clear your second composition requirement.

If your catalog rights for graduation fall under an earlier catalog,

see: www.csueastbay.edu/ge/transfer.htm to identify requirements for that catalog.

You must complete at least 45 quarter (30 semester) units of G.E. including G.E. Areas A (Communication in the English Language) and B4 (Quantitative Reasoning) before transferring as a junior.

Credit for Accredited Community College Courses

Cal State East Bay and California Community Colleges have articulation agreements regarding course equivalencies. If you are planning to transfer to Cal State East Bay you should consult with your community college counselors as to whether or not particular courses meet CSU specific requirements. AACE academic advisors, located on the second floor of the Student Services and Administration Building, are available to discuss and explain your transfer evaluation or the degree audit you will receive from the Office of the Registrar. An official evaluation or an update of a prior evaluation is available by appointment. (See the Student Services chapter in this catalog for additional information on AACE.)

Credits earned in accredited community colleges will be evaluated by the Office of Admission in accordance with the following provisions:

1. Not more than 105 quarter (70 semester) units of credit may be allowed for community college work; community college credit earned after the student has earned 105 quarter units at one or

more community colleges will be used for determining grade point averages and may be used to satisfy subject requirements, but may not be applied toward the total units required for the bachelor's degree.

2. No credit may be allowed for professional courses in education taken in a community college, other than an introduction to education course.
3. Certification of part or all of the lower division General Education-Breadth Requirements completed may be submitted by the California community college from which the student is transferring. Students should request a General Education (G.E.) certification at the time they request a transcript to be sent to Cal State East Bay. Twelve upper division G.E. units must be completed at Cal State East Bay.
4. Certification of the completion of the Cal State East Bay requirements in U.S. History and Institutions will also be accepted from your community college.
5. Credit from institutions not regionally accredited will not be used in determining admission eligibility, nor will it normally be used to meet graduation requirements. However, after completing 30 quarter units in residence, you may petition the Office of the Registrar to have such units accepted for baccalaureate credit. Course content, the quality of performance, the nature of the institution, and the appropriateness of the courses to the Cal State East Bay curriculum will be considered in evaluating any petition.

Transfer Requirements

Applicants who have completed fewer than 60 transferable semester college units (fewer than 90 quarter units) are considered lower-division transfer students. Applicants who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper-division transfer students. Applicants who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet the CSU minimum eligibility requirements for first-time freshman admission. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses and accepted as such by the campus to which the applicant seeks admission.

Lower-Division Transfer Requirements

Generally, applicants will qualify for CSU admission consideration as a lower-division transfer if they have a cumulative grade point average of at least 2.0 in all transferable units attempted.

1. Will meet the freshman admission requirements (grade point average and subject requirements) in effect for the term to which they are applying (see "Freshman Requirements" section); or
2. Were eligible as a freshman at the time of high school graduation except for missing college preparatory subject requirements, have been in continuous attendance in an accredited college since high school graduation, and have made up the missing subject requirements with a 2.0 or better GPA.

Note: Applicants who graduated from high school prior to 1988 should contact the admission office to inquire about alternative admission programs.

Lower-division applicants who did not complete subject requirements while in high school may make up missing subjects in any of the following ways:

1. Complete appropriate courses with a C or better in adult school or high school summer sessions.
2. Complete appropriate college courses with a C or better. One college course of at least three semester or four quarter units will be considered equivalent to one year of high school study.
3. Earn acceptable scores on specified examinations, e.g., SAT subject tests.

Please consult with the CSU campus admission office to which you are applying for further information about alternative ways to satisfy the subject requirements.

Note: Due to increased enrollment demands, most CSU campuses do not admit lower-division transfer applicants.

Upper-Division Transfer Requirements

Generally, applicants will qualify for consideration for upper-division transfer admission if they meet all of the following requirements:

1. Cumulative grade point average of at least 2.0 in all transferable units attempted;
2. In good standing at the last college or university attended; and
3. Completed at least sixty (60) transferable semester (90 quarter) units of college level coursework with a grade point average of 2.0 or higher and a grade C or better in each course used to meet the CSU general education requirements in written communication, oral communication, critical thinking, and quantitative reasoning, e.g. mathematics.

The 60 units must include at least 30 units of courses, which meet CSU general education requirement, including all of the general education requirements in communication in the English language (both oral and written) and critical thinking and the requirement in mathematics/quantitative reasoning (usually 3 semester units) OR the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning.

Associate Degrees for Transfer (AA-T or AS-T)

The Associate in Arts for Transfer (AA-T) and the Associate in Science for Transfer (AS-T) degrees offered at the California Community Colleges (CCC) are designed to provide a California community college student a clear transfer preparation and admission pathway to the CSU degree majors.

California Community College students who earn an associate degree for transfer (AA-T or AS-T) are guaranteed admission with junior standing to a CSU and given priority admission over other transfer applicants when applying to a local CSU campus, or non-impacted CSU program. AA-T or AS-T admission applicants are given priority consideration to an impacted campus/program or to campuses/programs that have been deemed similar to the degree completed at the community college. Students who have completed an AA-T/AS-T in a program deemed similar to a CSU major are able to complete remaining requirements for graduation within 60 semester (90 quarter) units. It is the responsibility of the student who has earned an AA-S/AS-T to provide documentation of the degree to the CSU campus.

Transferable Units through the CSU International Program

A student may also apply units earned through the CSU International Programs that meet the criteria outlined in the lower-division and upper-division transfer requirements. No more than half of the 45 units required for the degree may be earned in this manner. If a student also wishes to apply transfer credits to their degree, the total of the transfer and International Program units may not exceed one-half of those required for the degree. If a student completes their capstone experience (thesis, project, or comprehensive examination) while in the International Programs, this must be done under the supervision of at least one Cal State East Bay faculty member.

Transfer Student Provisions

In general, degree requirements are the same, but special provisions safeguard the programs taken by students at California community colleges and other CSU campuses. If you are a transfer student, the following provisions apply.

1. If you complete G.E. courses approved for transfer to the CSU and they are certified by your California Community College and/or CSU campus (or another campus accepts them and certifies them), Cal State East Bay will accept them to meet the requirements for which they are certified. According to the Code, CSU cannot accept more than 58 quarter units or 39 semester units. In practice, Cal State East Bay accepts 60 quarter (40 semester) units because our three-course, upper division G.E. program is 12 quarter units. 60 plus 12 totals the 72 units required for G.E.
2. If you complete the Intersegmental General Education Transfer Curriculum (IGETC) and it is certified as being complete by your community college, you have satisfied the entire 60-unit lower division G.E. program and have only the three courses, 12-unit, upper division G.E. program to complete. (The IGETC is an all-or-nothing certification; there is no partial certification as in #1 above.)
3. If you complete any part or all of the U.S. history, U.S. Constitution, and California state and local government requirement at a California community college or other CSU campus and it is certified, Cal State East Bay will accept that certification for completion for all, or part of, the requirement. Contact either the History department or the Political Science department if you have any questions about this requirement
4. If you successfully completed a course at another university or college that is not certified for the CSU G.E. program, but you believe it meets the criteria listed earlier for a specific requirement, you may request an "exception" on your degree audit. If you believe you have a petitionable course, discuss it with your advisor, with a G.E. advisor in the Academic Advising and Career Education Office, or the G.E. Office. If (s)he agrees, the advisor will submit the exception request for review. After action on your request for an exception, an e-mail to your Horizon account will notify you of the decision. Likewise, if you believe you have a petitionable course for the U.S. history and government requirement, you may request an exception. In this case, go to either the History department or the Political Science department, whichever is appropriate to the course,

and review the issue with the department Chair. (Both departments are in the Student and Faculty Services (SF) building.) If the Chair agrees, (s)he will approve the exception and note it on your degree audit.

5. Cal State East Bay has articulation agreements for all of our majors with all California community colleges. You may view them online at: <http://www.assist.org>. If you followed one of these major articulation agreements and completed all equivalent lower division work at the community college, your major department will consider your lower division major complete. If you did not follow an articulation agreement, your major department will evaluate your transfer courses individually for equivalence.
6. Cal State East Bay also maintains pre-approved transfer courses from multiple private and out-of-state colleges. You may view them online at: TES
7. The graduation writing proficiency requirement (called the University Writing Skills Requirement at Cal State East Bay) is mandatory on all CSU campuses. Cal State East Bay will accept certification of the graduation writing proficiency requirement from any CSU campus. However, we must have written documentation that the entire requirement was satisfied at the other campus where you were enrolled as a matriculated student. ("Matriculation" means regularly enrolled after being admitted to a university.) You cannot, for example, take a writing proficiency test at another campus to meet the UWSR at Cal State East Bay while you are matriculated at CSUEB.

Note: Although you can complete a sizable portion of your graduation requirements at other colleges and universities, do not forget the residence requirements previously listed. They must be satisfied while matriculated and enrolled at Cal State East Bay.

Provisional (Conditional) Admission for Transfer Students

Cal State East Bay may provisionally or conditionally admit transfer applicants based on their academic preparation and courses planned for completion. The campus will monitor the final terms to ensure that those admitted complete all required courses satisfactorily. All accepted applicants are required to submit an official transcript of all college level work completed. Campuses may rescind admission for any student who is found to be ineligible after the final transcript has been evaluated. In no case may such documents be received and validated by the university any later than a student's registration for their second term of CSU enrollment.

Note: Applicants will qualify for regular (non-conditional) admission when the university verifies that they have graduated and have received a high school diploma, have a qualifying minimum eligibility index, have completed the comprehensive pattern of college preparatory "a-g" subjects, and, if applying to an impacted program or campus, have met all required supplemental criteria.

Transfer Credit Information

New undergraduate transfer students will automatically receive an official GE evaluation of all transfer courses from the Office of the Registrar before the end of their second term after admission. In consultation with a GE advisor, they can subsequently track their degree progress through the online degree audit in *MyCSUEB*. Contact the Office of the Registrar from any questions about the general education portion of the online audit.

International Admission Information

International Admissions Office

All matters pertaining to the admission of international students are handled by the International Admissions Office. Students from other countries should consult with the International Admissions Office regarding visas, eligibility for employment, and any special academic requirements.

The CSU must assess the academic preparation of foreign students. For this purpose, "foreign students" include those who hold U.S. temporary visas as students, exchange visitors, or in other non-immigrant classifications. Cal State East Bay uses separate requirements and application filing dates in the admission of "foreign students". Verification of English proficiency (see below), financial resources, and academic performance are each important considerations for admission.

Prospective Graduate Students

Graduate applicants must hold a degree equivalent to a four-year bachelor's degree obtained from a recognized university. You must also have the equivalent of a 2.50 grade point average, or higher, in your last two years of college-level courses.

Center for International Education

International Students should contact the Center for International Education (cie@csueastbay.edu) for information on matters affecting visa status, eligibility for employment, and any special academic requirements for international students.

CIE - (SAS,OTHER) International Education & Student Exchange Programs

International Admission Requirements

General Requirements for All Applicants

Cal State East Bay must assess the academic preparation of international students. For this purpose, "international students" include those who hold U.S. visas as students, exchange visitors, or in other nonimmigrant classifications. California residents and U.S. citizens with international transcripts are also

classified as "international students" for admission evaluation purposes.

There are separate requirements for the admission of international students. Verification of English proficiency, financial resources, and academic performance are all important considerations for admission. Each applicant must have a declared educational objective (major) when the application is filed.

Priority in admission is given to residents of California for majors that are impacted or for programs with limited openings.

Enrollment Requirements for F-1/J-1 Visa Students

When admitted to Cal State East Bay, international students are expected to comply with all regulations of the U.S. Citizenship and Immigration Services pertaining to international students as well as those of the university.

F-1/J-1 international students should contact the Center for International Education (cie@csueastbay.edu) for information on matters affecting visa status, eligibility for employment, and any special academic requirements for international students.

Application Filing Periods & Deadlines for International Students

The university has established deadlines to ensure that all application materials will be processed in time to allow international students to make the necessary passport, visa, travel, and other arrangements to reach the campus before the start of the quarter of admission. Current deadlines applicable to international student admission can be found on the university website or by contacting the International Admissions Office: iao@csueastbay.edu

First-time Freshmen

If you received your preparatory education outside the U.S., you must have completed the equivalent of 12 years of elementary and secondary schooling with the equivalent of a "B" average or higher. ACT or SAT test scores are not required of international students who completed their secondary schooling outside the U.S. International students who graduated from a U.S. high school must meet the same requirements as U.S. citizens.

Transfer of University-Level Work from Outside the US

Transfer students with university-level work earned outside the U.S. will be accepted if the overall grade point average of that work is equivalent to the stated minimum grade point average requirements for admission. Transfer credit for university-level course work earned outside of the U.S. will be awarded after a course-by-course evaluation by the International Admissions Office.

Academic Records

Certificates, diplomas, mark sheets, transcripts, and test scores must be sent directly from the issuing institution to the International Admissions Office to be considered official. The International Admissions Office reserves the right to determine what constitutes an official document. Certified English translations must accompany all non-English original documents. Documents submitted are the property of Cal State East Bay and will not be returned.

Financial Certification

International students who wish to apply for a student visa must demonstrate financial support before a letter of admission or an "I-20" or "DS-2019" form will be issued. The following forms must be submitted: I-20 Letter of Consent, Declaration of Finances, and Health Insurance Compliance. These forms can be downloaded from the "Apply Online" option on the university website.

Other Non-U.S. Citizens

Admission eligibility for students who are not U.S. citizens or permanent residents, and are not on student visas, will be based upon the same standards applied to international students who are on student visas. You are expected to have proficiency in the English language sufficient to meet the academic standards of individual courses and the university English proficiency requirements. Evidence of proficiency in English is the same as for international students.

Fees & Financial Services

A variety of financial services are offered to students and staff, including cashier services, the sale of parking decals, and the processing of registration payments. The student financial services offices also assist students with their financial aid and scholarship payment disbursement questions, and accept authorizations to bill third party sponsors for student registration fees. The main office of Accounting and Fiscal Services is located in the Student Services and Administration building (SA), 2nd Floor. The Cashier's Office is located in the SA, 1st Floor and is open weekdays from 8:30 a.m. to 5:00 p.m., except Friday, the hours are 9:00 a.m. to 4:30 p.m. There is a secured drop box located in the front of the Cashiers' office for those wishing to drop off payments after normal business hours. *The Cashiers' office accepts checks, cash and money orders only.* **Credit cards are NOT accepted at the Cashiers' office;** however, students may pay their registration fees online with SmartPay using their American Express, Discover, Visa, or MasterCard with a 2.9% convenience fee. You may also choose to pay with an electronic check free of charge. Consult your *MyCSUEB* for additional payment information.

Fees

Non-Resident Tuition

Schedule of Undergraduate Registration Fees

Miscellaneous Course Fees

Other Fees Payable upon Service

University Extension (Continuing Education) Fees

Acceptable Methods of Payment

Financial Services

University Fees and Debts Policy

Financial Aid Services

Information on Financial Assistance

Refund of Mandatory Fees (Including Non-Resident Tuition)

Refund Regulations

California Code for Fee Waivers & Exemptions

Procedure for Establishing or Abolishing Campus-Based Mandatory Fees

Cal State University's Average Support Cost

Fees

Nonresident Tuition

Nonresident Tuition (in addition to basic tuition and systemwide fees charged all students), for quarter campuses, *per unit* is \$264.

Mandatory systemwide tuition is waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see *California Code for Fee Waivers & Exemptions* in this chapter).

Note: The total nonresident tuition paid per quarter will be determined by the number of units taken. Fees are subject to change without advance notice.

Schedule of Undergraduate Tuition & Fees

The CSU makes every effort to keep student costs to a minimum. Tuition and fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial payments are made, to increase or modify any listed tuition or fees. All listed fees, other than mandatory systemwide tuition, are subject to change without notice, until the date when instruction for a particular semester or quarter has begun. All CSU listed fees should be regarded as **estimates** that are subject to change upon approval by the Board of Trustees, the Chancellor, or the Presidents, as appropriate. Changes in mandatory systemwide tuition will be made in accordance with the requirements of the Working Families Student Fee Transparency and Accountability Act (Sections 66028 - 66028.6 of the Education Code).

The following schedule reflects applicable systemwide tuition & fees for quarter campuses and applies only to students who do not hold a bachelor's degree. If you already hold a bachelor's degree, regardless of your current educational objective, you will pay the fees listed in the *Graduate Fees* section of this chapter.

All Students:

Application Fee (nonrefundable), payable by check or money order at the time application is made: \$55

Undergraduate Tuition & Fees, effective Fall 2017 ^{1,2}

	0.1 to 6.0 Units	6.1 or More Units
Tuition Fee*	\$1,110	\$1,914
Student Body Fee	43	43
Facilities Fee	2	2

University Union Fee	55	55
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University Union Recreational Fee	65	65
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Instructionally Related Activities Fee	8	8
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Health Services Fee	75	75
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Athletics Fee	35	35
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Academic Excellence Fee	80	80
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Photo I.D. (quarterly fee)	1	1
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Total	\$1,474	\$2,278
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1.Fee adjustments subject to the policies established in Executive Order 661.

2.Disclaimer - Cost of Collection: Unpaid Tuition and Fees. You are subject to normal collection actions for unpaid debts including: assessment of late registration and past due fees, withholding of University services, withholding of credit for and disenrollment from some or all classes, referral of the debt to a collection agency and/or credit reporting agency, intercept of amounts due you from the State of California and/or legal action. You are obligated to pay all costs of collection, including attorney fees, collection agency fees and court costs (Please see Title 5, California Code of Regulations, Sections 42380 and 42381).

***Note: The Tuition Fee for the academic year (three quarters) is \$4,422 for 0.1 to 6.0 units a quarter and \$6,834 for 6.1 or more units a quarter. The total fees paid per quarter will be determined by the number of units taken, including those in excess of fifteen.**

Miscellaneous Course Fees

You may have to pay a miscellaneous course fee for instructional materials and field trips for some courses. If courses have such fees, it is noted in their course descriptions in this catalog. Also refer to the *MyCSUEB* for additional information and specific fee schedules for these courses.

CSU reserves the right, even after initial fee payments are made, to increase or modify any listed fees, without notice, until the date when instruction for a particular quarter has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by The Board of Trustees

Other Fees Payable Upon Service

Other Fees (payable when service is rendered)

Fee	Amount
Late registration fee	\$25
Failure to meet administratively-required time limit	\$20
Graduation and diploma fee **	\$52
Lost ID card fee	\$10
Returned check	\$25
Parking fee per quarter: Auto	\$130
Parking fee per quarter: Motorcycle	\$65
Official transcript of record (single)	\$4
Additional transcripts prepared at same time up to ten (2-10)	\$2(each)
Additional transcripts prepared at same time after first ten (11+)	\$1(each)
Unofficial transcript of record	\$2(each)
Items lost or broken	COST
Test fees	COST
Laboratory and/or activity fee	COST
Certificate program fee	\$4
Entry Level Math (ELM) Exam	\$18

English Placement Test (EPT)	\$18
Writing Skills Test (WST)	\$25
Limited Administration of WST (guaranteed computer)	\$50
Miscellaneous Course fee	\$50-\$500

*Note: ** The graduation fee does not include the cost of cap and gown rental.*

University Extension (Continuing Education) Fees

Nonresident Tuition is not charged for Continuing Education or Open University courses. Fees for Cal State East Bay Continuing Education courses vary, depending on the type of course selected. Visit the Continuing Education website at <http://www.ce.csueastbay.edu> for the latest information on fees for specific courses, as well as detailed descriptions of programs and courses.

See UEX - (GLANC) University Extension Programs for more information about their programs.

Acceptable Methods of Payment

Credit Cards, Cash, Check

You may use credit cards, cash, or check for payment of tuition & fees. See the current *MyCSUEB* for additional information. The following credit cards are accepted:

- American Express,
- Discover,
- Visa, and
- MasterCard

Installment Payment Plans

Installment Payment Plans have been authorized if you are assessed Nonresident Tuition or Tuition Fees. See the current *MyCSUEB* for additional information about payment plans.

Payment of Special Fees

The Cashier in the lobby of the Student Services and Administration building accepts in-person cash or check payments for all fees due to Cal State East Bay, such as registration, lab, breakage, test, and parking fees. (Most payments can also be mailed.)

For more information and important dates see the Information About Paying Fees page on the University website.

Financial Services

Fees and Debts Owed Policy

Should a student or former student fail to pay a fee or a debt owed to the institution, including tuition and student charges, the institution may "withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt" until the debt is paid (see Title 5, California Code of Regulations, Sections 42380 and 42381).

Prospective students who register for courses offered by the University are obligated for the payment of charges and fees associated with registration for those courses. Failure to cancel registration in any course for an academic term prior to the first day of the academic term gives rise to an obligation to pay student charges and fees including any tuition for the reservation of space in the course.

The institution may withhold permission to register or to receive official transcripts of grades or other services offered by the institution from anyone owing fees or another debt to the institution. The institution may also report the debt to a credit bureau, offset the amount due against any future state tax refunds due the student, refer the debt to an outside collection agency and/or charge the student actual and reasonable collection costs, including reasonable attorney fees if litigation is necessary, in collecting any amount not paid when due.

If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person may contact the campus business office. The business office, or another office on campus to which the business office may refer the person, will review all pertinent information provided by the person and available to the campus and will advise the person of its conclusions.

Financial Aid Services

The Financial Aid Services department coordinates all university-administered financial aid programs. You may obtain financial aid information and assistance in the Student Enrollment Information Center (1st floor of Student Services and Administration Building).

Financial Aid Applications

The Free Application for Federal Student Aid (FAFSA) is available on the web at: www.fafsa.ed.gov. You are strongly encouraged to complete the FAFSA each year by the March 2 priority filing date. The FAFSA helps determine your eligibility for grants, Work-Study, and loans. Eligibility for limited funds is determined by financial need and FAFSA priority filing. If you are a California resident, you may also apply for a Cal Grant by completing the FAFSA and asking your school to submit your grade point average (GPA) to the California Student Aid Commission by March 2 for high school/college students, and September 2 for California Community College transfer students. AB540 students may apply for California State Aid, including Cal Grants, by completing the Dream Application. Information on the Dream Act and a link to the Dream Application may be found at: [Dream Act and Application](#)

Note: The federal Military Selective Service Act requires most males between the ages of 18 and 25, who reside in the United States, to register with the Selective Service System. If you are subject to the Act and fail to register, you are ineligible to receive all student aid funded by the federal student aid, state sources, or a public post-secondary institution. See "*Military Selective Service Act*" in the Military & Veterans Information & Services for additional information.

Academic Progress

Financial aid recipients are required to meet academic and degree progress standards set forth in the Satisfactory Academic Progress Policy. The Financial Aid Office measures academic progress at the end of each term after grades are finalized. You may review the full policy at: [Satisfactory Academic Progress Policy](#).

Loans and Grants

If you demonstrate financial aid need, you may be eligible for loans or grants. You will be considered for one or more of the following programs:

- Pell Grant,
- Federal Supplemental Educational Opportunity Grant,
- State University Grant,
- Cal Grant A or B,
- Work-Study,
- Perkins Loan,
- Direct Subsidized Loan,
- Parent PLUS Loan, and
- Graduate PLUS Loan.

You may qualify for Middle Class Scholarship, Unsubsidized Direct Loan, Parent PLUS Loan, and Teach Grant without demonstrating need. Graduate Students are ineligible for Subsidized Direct Loans.

Work-Study Program

Work-Study is earned through part-time employment in on-campus and certain off-campus jobs. Federal Work Study (FWS) is a form of financial aid largely provided by federal funding. A student must apply for financial aid each year to become eligible for the award, or to keep working in their current Work Study job. Eligible FWS students earn money by working a limited number of hours per week at a pre-

approved FWS site location. Employment may be found on or off campus with employers that have arranged in advance to offer FWS positions to CSUEB students. If you are eligible, Work-Study employment can assist you in meeting your educational expenses without incurring indebtedness. Financial Aid will use the information provided on your FAFSA to determine your eligibility for Work-Study.

Scholarships

You may obtain information on scholarship opportunities from Financial Aid and from major departments. Both on and off-campus scholarship information is available on the university's web site. Admitted Students may use the new on-line Pioneer Scholarships application to apply for all East Bay scholarships.

Short-Term Loans

Financial Aid and Student Financial Services also administer the University's short-term Emergency Loan Program and the intermediate term Foreign Student Loan Program. You are not required to apply for financial aid to receive these interest free loans. Emergency Loans may not be used to pay university charges and are usually limited to \$300 with repayment due in 30 days. If you are a non-U.S. citizen, you may apply for a maximum of \$200 with repayment due within 9 months

(Also see "Fee Waivers for Senior Citizens" under the University website Special Program Registration Procedures - Over Sixty Program)

You may obtain additional information on eligibility requirements for financial assistance, and the criteria used to distribute aid among eligible applicants who enroll at Cal State East Bay, from the Financial Aid Department.

Availability of Institutional and Financial Assistance Information

Under the direction of Executive Director Rhonda C. Johnson, the Office of Financial Aid coordinates financial assistance for students at Cal State East Bay. The following information is available from the Enrollment Information Center in the first floor lobby of the Student Services and Administration building. Students may also call Financial Aid at (510) 885-2784.

The following information concerning student financial assistance may be obtained from the Office of Financial Aid:

- A description of the federal, state, institutional, local, and private student financial assistance programs available to students who enroll at Cal State East Bay;
- For each aid program, a description of procedures and forms by which students apply for assistance, student eligibility requirements, criteria for selecting recipients from the group of eligible applicants, and criteria for determining the amount of a student's award;

- A description of the rights and responsibilities of students receiving financial assistance, including federal Title IV student assistance programs, and criteria for continued student eligibility under each program;
- The satisfactory academic progress standards that students must maintain for the purpose of receiving financial assistance and criteria by which a student who has failed to maintain satisfactory progress may reestablish eligibility for financial assistance;
- The method by which financial assistance disbursements will be made to students and the frequency of those disbursements;
- The way the school provides for Pell-eligible students to obtain or purchase required books and supplies by the seventh day of a payment period and how the student may opt out;
- The terms of any loan received as part of the student's financial aid package, a sample loan repayment schedule, and the necessity for repaying loans;
- The general conditions and terms applicable to any employment provided as part of the student's financial aid package;
- The terms and conditions of the loans students receive under the Direct Loan and Perkins Loan Programs;
- The exit counseling information the school provides and collects for student borrowers; and
- Contact information for campus offices available for disputes concerning federal, institutional and private loans.

Students who receive financial aid funds must consult with the Office of Financial Aid prior to withdrawing from the university regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

Under the direction of Flo Olney, Student Financial Services Manager (510) 885-3767 (flo.olney@csueastbay.edu) the following Cal State East Bay information is available:

- Information concerning the cost of attending is available and includes tuition and fees; the estimated costs of books and supplies; estimates of typical student room, board, and transportation costs; and, if requested, additional costs for specific programs.
- Information concerning the refund policies of for the return of unearned tuition and fees or other refundable portions of institutional charges.
- Information concerning policies regarding the return of federal Title IV student assistance funds as required by regulation.

Information regarding special facilities and services available to students with disabilities may be obtained from: <http://www.csueastbay.edu/af/departments/as/>

Information concerning Cal State East Bay policies, procedures, and facilities for students and other to report criminal actions or other emergencies occurring on campus may be obtained from: CSUEB Title IX Coordinator; Terri Labeaux, Risk Management and Internal Control, 510-885-4918.

Information concerning Cal State East Bay annual campus security report and annual fire safety report may be obtained from: <http://www.csueastbay.edu/af/departments/upd/>

Information concerning the prevention of drug and alcohol abuse and rehabilitation programs may be obtained from: <http://www.csueastbay.edu/students/campus-life/shcs/atod/>

Information regarding student retention and graduation rates at Cal State East Bay and, if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest may be obtained from: <http://www.csueastbay.edu/ir/>

Information concerning athletic opportunities available to male and female students and the financial resources and personnel that Cal State East Bay dedicates to its men's and women's teams may be obtained from: <http://www.eastbaypioneers.com/staff.aspx>

Information concerning teacher preparation programs at Cal State East Bay, including the pass rate on teacher certification examinations, may be obtained from: <http://www.csueastbay.edu/stemed/teacher-prep/requirements/credential/>

Information concerning grievance procedures for students who feel aggrieved in their relationships with the university, its policies, practices and procedures, or its faculty and staff may be obtained from: Rebekah Rhodes, Director of Student Conduct, Rights and Responsibilities, (510) 885-3763 (rebekah.rhodes@csueastbay.edu).

Information concerning student activities that Cal State East Bay provides, must be easily accessible on: <http://www.csueastbay.edu/prospective/campus-life/>

Information concerning student body diversity at Cal State East Bay, including the percentage of enrolled, full-time students who are (1) male, (2) female, (3) Pell Grant recipients, and (4) self-identified members of a specific racial or ethnic group, must be obtained from: Student Affairs, (510) 885-3646 (studentaffairs@csueastbay.edu)

The federal SES-MCC - (M&VS) Military Selective Service Act (the "Act") requires most males residing in the United States to present themselves for registration with the Selective Service System within 30 days of their 18th birthday. Most males between the ages of 18 and 25 must be registered. Males born after December 31, 1959, may be required to submit a statement of compliance with the Act and regulations in order to receive any grant, loan, or work assistance under specified provisions of existing federal law. In California, students subject to the Act who fail to register are also ineligible to receive any need-based student grants funded by the state or a public postsecondary institution.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to register them with the Selective Service. Information on the Selective Service System is available and the registration process may be initiated online at <http://www.sss.gov>

Refund of Mandatory Fees, Including Non-Resident Tuition

Regulations governing the refund of mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in Section 41802 of Title 5, California Code of Regulations. For purposes of the refund policy, mandatory fees are defined as those systemwide and campus fees that are required to be paid in order to enroll in state-supported academic programs at the California State University. Refunds of fees and tuition charges for self-support, special session, and continuing education programs or courses at the California State University are governed by a separate policy established by the University.

In order to receive a full refund of mandatory fees, including nonresident tuition, a student must cancel registration or drop all courses prior to the first day of instruction for the term. Information on procedures and deadlines for canceling registration and dropping classes is available on your *MyCSUEB*.

For state-supported semesters, quarters, and non-standard terms or courses of four (4) weeks or more, a student who withdraws during the term in accordance with the University's established procedures or drops all courses prior to the campus-designated drop period will receive a refund of mandatory fees, including nonresident tuition, based on the portion of the term during which the student was enrolled. No student withdrawing after the 60 percent point in the term will be entitled to a refund of any mandatory fees or nonresident tuition.

A student who, within the campus designated drop period and in accordance with the campus procedures, drops units resulting in a lower tuition and/or mandatory fee obligation shall be entitled to a refund of applicable tuition and mandatory fees less an administrative charge established by the campus.

For state-supported non-standard terms or courses of less than four (4) weeks, no refunds of mandatory fees and nonresident tuition will be made unless a student cancels registration or drops all classes, in accordance with the University's established procedures and deadlines, prior to the first day of instruction for state-supported non-standard terms or courses or prior to the first meeting for courses of less than four (4) weeks.

Students will also receive a refund of mandatory fees, including nonresident tuition, under the following circumstances:

- The fees were assessed or collected in error;
- The University canceled the course for which the fees were assessed or collected;
- The University makes a delayed decision that the student was not eligible to enroll in the term for which mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student; or
- The student was activated for compulsory military service.

Students who are not entitled to a refund as described above may petition the university for a refund demonstrating exceptional circumstances and the chief financial officer of the University or designee may authorize a refund if he or she determines that the fees and tuition were not earned by the University.

Information concerning any aspect of the refund of fees may be obtained from the Cashiers Office, 1st Floor, Student Services and Administration Building, (510) 885-3865.

Refund Regulations

Refund disbursements are not made automatically. If you request a refund check (see below) and it is approved, it will be available in approximately four to six weeks.

If you are eligible for a refund of Registration fees (including nonresident tuition) because you withdrew or reduced units before the published deadlines, the amount of the refund will automatically be credited to your university account. If you take no action, the university will leave the balance on your account to apply toward future charges.

A few refund situations are listed below for your information.

- If you find it necessary to withdraw officially from Cal State East Bay, you may be eligible for a partial refund of your Registration fees. Also, see 3) below. A "Refund Request" form is available at the Cashier's on the first floor of Student Service Building or in the Concord Campus Academic Services Lobby.
- If you withdraw before the first day of instruction for the term, all quarterly fees, including the Facilities fee, Instructionally Related Activities fee, Associated Students fee, Health Services fee and University Union fee are refunded in full. A \$10.00 processing fee will be assessed if a refund check is generated. Information on procedures and deadlines for canceling registration and dropping classes is available in the MyCSUEB. The Late Registration fee is not refundable except when due to university error.
- If you have been called to active military duty and, as a result, find it necessary to withdraw from Cal State East Bay, you are eligible for a refund of fees. You must file a "Refund Request" form available at the Cashier's on the first floor of Student Service Building with a copy of the orders.
- Refunds owed to financial aid recipients will be used to repay the funds from which the student has received financial aid.

Information concerning the refund policy of Cal State East Bay for the return of unearned tuition and fees or other refundable portions of costs is available from the Accounting and Fiscal Services Office, (510) 885-3767.

Fee Waivers & Exemptions

The California Education Code provides for the waiver of mandatory systemwide tuition fees as follows:

Section 66025.3 -Dependent eligible to receive assistance under Article 2 of Chapter 4 of Division 4 of the Military and Veterans Code; child of veteran of the United States military who has a service-connected disability, has been killed in service, or has died of a service-connected disability, and meets specified income provisions; dependent, or surviving spouse (who has not remarried) of a member of the California National Guard who, in the line of duty, and while in the active service of the state, was killed, died of a disability resulting from an event that occurred while in the active service of the state, or is permanently disabled as a result of an event that occurred while in the active service of the state; and undergraduate student who is a recipient of a Medal of Honor, or undergraduate student who is a

child of a recipient of a Medal of Honor who is no more than 27 years old, meets the income restriction and California residency requirement.

Section 66602 - Qualifying students from the California State University that are appointed by the Governor to serve as Trustees of the California State University for two-year terms.

Section 68120 - Surviving spouse or child of a deceased public law enforcement or fire suppression and prevention employee who was California resident and was killed in the performance of active law enforcement or fire suppression and prevention duties (referred to as Alan Pattee Scholarships), must enroll as an undergraduate student at the California State University and meets income restriction requirement.

Section 68121 - Qualifying students enrolled in an undergraduate program who are the surviving dependent of any individual killed in the September 11, 2001 terrorist attacks on the World Trade Center in New York City, the Pentagon building in Washington, D.C., or the crash of United Airlines Flight 93 in southwestern Pennsylvania, if the student meets the financial need requirements set forth in Section 69432.7 for the Cal Grant A Program and either the surviving dependent or the individual killed in the attacks was a resident of California on September 11, 2001.

Students who may qualify for the above benefits should contact the Admissions/Registrar's Office for further information and/or an eligibility determination.

The California Education Code provides for the following nonresident tuition exemptions:

Section 68075.7 - Nonresident students are exempt from paying nonresident tuition or any other fee that is exclusively applicable to nonresident students if they:

- (1) reside in California,
- (2) meet the definition of "covered individual" as defined in subsection (c) of Section 3679 of Title 38 of the United States Code, as that provision read on July 1, 2015; and
- (3) are eligible for education benefits under either the federal Montgomery GI Bill-Active Duty program or the Post-9/11 GI Bill program as each read on July 1, 2015.

Section 68122 - Students who are victims of trafficking, domestic violence, and other serious crimes who have been granted T or U visa status shall be exempt from paying nonresident tuition to the same extent as individuals who are admitted to the United States as refugees under Section 1157 of Title 8 of the United States Code

Section 68130.5 - Students who are not residents of California are exempt from paying nonresident tuition if they:

- (1) (a) attended high school in California for three or more years, or (b) attained credits earned from a California high school equivalent to three or more years of full-time high school coursework and a total of three or more years of attendance in California elementary schools, California secondary schools, or a combination of those schools;
- (2) graduated from a California high school or attained the equivalent; and
- (3) registered as an entering student or are currently enrolled at a CSU campus.

In addition, students without lawful immigration status will be required to file an affidavit stating that they have filed an application to legalize their immigration status, or will file an application as soon as they are eligible to do so. This exemption from paying nonresident tuition does not apply to students who are non-immigrant aliens within the meaning of 8 United States Code 1101(a)(15), except as provided by Section 68122 above.

Additional exceptions from nonresident tuition, include:

1. Persons below the age of 19 whose parents were residents of California but who left the state while the student, who remained, was still a minor. When the minor reaches age 18, the exception continues until the student has resided in the state the minimum time necessary to become a resident.
2. Minors who have been present in California with the intent of acquiring residence for more than a year before the residence determination date, and entirely self-supporting for that period of time. The exception continues until the student has resided in the state the minimum time necessary to become a resident.
3. Persons below the age of 19 who have lived with and been under the continuous direct care and control of an adult or adults, not a parent, for the two years immediately preceding the residence determination date. Such adult must have been a California resident for the most recent year. The exception continues until the student has resided in the state the minimum time necessary to become a resident.
4. Dependent children and spouse of persons in active military service stationed in California on the residence determination date. There is no time limitation on this exception unless the military person transfers out of California or retires from military service. If either of those events happen, the student's eligibility for this exception continues until he or she resides in the state the minimum time necessary to become a resident.
5. Military personnel in active service stationed in California on the residence determination date for purposes other than education at state-supported institutions of higher education. This exception continues until the military personnel has resided in the state the minimum time necessary to become a resident.
6. Military personnel in active service in California for more than one year immediately prior to being discharged from the military. Eligibility for this exception runs from the date the student is discharged from the military until the student has resided in state the minimum time necessary to become a resident.
7. Dependent children of a parent who has been a California resident for the most recent year. This exception continues until the student has resided in the state the minimum time necessary to become a resident, so long as continuous attendance is maintained at an institution.
8. Graduates of any school located in California that is operated by the United States Bureau of Indian Affairs, including, but not limited to, the Sherman Indian High School. The exception continues so long as continuous attendance is maintained by the student at an institution.

9. Certain credentialed, full-time employees of California school districts.
10. Full-time CSU employees and their children and spouse; State employees assigned to work outside the State and their children and spouse. This exception continues until the student has resided in the state the minimum time necessary to become a California resident.
11. Children of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of law enforcement or fire suppression duties.
12. Certain amateur student athletes in training at the United States Olympic Training Center in Chula Vista, California. This exception continues until the student has resided in the state the minimum time necessary to become a resident.
13. Federal civil service employees and their natural or adopted dependent children if the employee has moved to California as a result of a military mission realignment action that involves the relocation of at least 100 employees. This exception continues until the student has resided in the state the minimum time necessary to become a resident.
14. State government legislative or executive fellowship program enrollees. The student ceases to be eligible for this exception when he or she is no longer enrolled in the qualifying fellowship.

For Additional Information

Students who may qualify for any of these benefits listed above should contact Enrollment Management for further information on the specific requirements and/or an eligibility determination.

Procedure for Establishing or Abolishing of Campus-Based Mandatory Fees

The law governing the California State University provides that specific campus fees defined as mandatory, such as a student association fee and a student center fee, may be established. A student association fee must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 89300). The campus President may adjust the student association fee only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose. The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus President containing the signatures of 10 percent of the regularly enrolled students at the University. Student association fees support a variety of cultural and recreational programs, childcare centers, and special student support programs. A student center fee may be established only after a fee referendum is held which approves by a two-thirds favorable vote the establishment of the fee (Education Code, Section 89304). Once bonds are issued, authority to set and adjust student center fees is governed by provisions of the State University Revenue Bond Act of 1947, including, but not limited to, Education Code sections 90012, 90027, and 90068.

The process to establish and adjust other campus-based mandatory fees requires consideration by the campus fee advisory committee and a student referendum as established by Executive Order 1102, Section III. The campus President may use alternate consultation mechanisms if he/she determines that a

referendum is not the best mechanism to achieve appropriate and meaningful consultation. Results of the referendum and the fee committee review are advisory to the campus President. The President may adjust campus-based mandatory fees but must request the Chancellor to establish a new mandatory fee. The President shall provide to the campus fee advisory committee a report of all campus-based mandatory fees. The campus shall report annually to the Chancellor a complete inventory of all campus-based mandatory fees.

For more information or questions, please contact the Budget Office in the CSU Chancellor's Office at (562) 951-4560.

CSU's Average Support Cost Per Full-Time Equivalent Student & Fund Sources

The total support cost per full-time equivalent student (FTES) includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of FTES. The total CSU 2016/17 budget amounts were \$3,169,425,000 from state General Fund (GF) appropriations and before adding \$36.8 million CalPERS retirement adjustment, \$1,685,885,000 from tuition fee revenue and after tuition fee discounts (forgone revenue), and \$528,555,000 from other fee revenues for a total of \$5,383,865,000. The 2016/17 resident FTES target is 361,644 and the nonresident FTES based on past-year actual is 22,552 for a total of 384,196 FTES. The GF appropriation is applicable to resident students only whereas fee revenues are collected from resident and nonresident students. FTES is determined by dividing the total academic student load (e.g. 15 units per semester) (the figure used here to define a full-time student's academic load).

The 2016/17 average support cost per FTES based on GF appropriation and net tuition fee revenue only is \$13,152 and when including all sources as indicated below is \$14,528, which includes all fee revenue (e.g. tuition fees, application fees, and other campus mandatory fees) in the CSU Operating Fund. Of this amount, the average net tuition and other fee revenue per FTES is \$5,764.

2016/17	AMOUNT	AVERAGE COST PER FTES	PERCENTAGE
State Appropriation (GF) ¹	3,169,425,000	8,764	60.3%
Net Tuition Fee Revenue ²	1,685,885,000	4,388	30.2%
Other Fees Revenue ²	528,555,000	1,376	9.5%

2016/17	AMOUNT	AVERAGE COST PER FTES	PERCENTAGE
TOTAL SUPPORT COST	5,383,865,000	14,528	100%

1Represents state GF appropriation in the Budget Act of 2016/17; GF is divisible by resident students only (361,6440 FTES)

2Represents CSU Operating Fund, Tuition Fee and other fees revenue amounts (net of tuition fee discounts) submitted in campus August 2016/17 final budgets. Revenues are divisible by resident and nonresident students (384,196 FTES).

The average CSU 2016/17 academic year, resident, undergraduate student basic tuition fee and other Mandatory fees required to apply to, enroll in, or attend the university is \$6,881 (\$5,472 tuition fee plus \$1,409 average campus-based fees). However, the costs paid by individual students will vary depending on campus, program, and whether a student is part-time, full-time, resident, or nonresident.

Requirements, Exams & Testing

The California State University G.E. program requires at least 72 quarter units distributed over six areas and governed by three general requirements. Transfer students must earn 60 units in lower-division courses that meet the requirements of the CSU or IGETC transfer plan. Twelve units of upper-division G.E. will be completed at CSUEB. The lists of courses meeting the requirements change from quarter to quarter and are not included in this catalog because they rapidly become outdated. The list of courses currently meeting each requirement appears in the online Class Schedule each quarter or at: <http://www20.csueastbay.edu/ge>. For further information see: *General Education-Breadth Requirements* below.

Requirements

Overview of Baccalaureate Degree Requirements

System-wide Placement Test Requirements

English Proficiency Requirements

Music Auditions and Proficiency Exam Requirement

General Education-Breadth Requirements

Second Composition Requirement

Cultural Groups/Women (CGW) Requirement

Performing Arts and Activities Requirement

U.S History and Government Code Requirement

University Writing Skills Requirement (Undergraduate)

Undergraduate Residence, Units, and Grade Point Average Requirements

Exams & Testing

Entry-Level Mathematics (ELM) Exam

English Placement Test (EPT)

Submitting Test Scores

Advanced Placement Exams

International Baccalaureate Exams

Credit by Examination Policy

College Level Examination Program (CLEP)

Science Equivalency Exam

Chemistry, English, Mathematics, and Music Placement Exams

French and Spanish Language Placement Exams

Challenging Courses via Examinations

Testing Services

Requirements

Overview of Baccalaureate Degree Requirements

There are three major parts of a baccalaureate degree and seven basic requirements defined in the California Code of Regulations. Most courses will fall into one of the three major parts of the degree. See the Requirements, Exams & Testing Chapter for more detailed information concerning G.E. and degree requirements:

1. the General Education (G.E.) requirements for basic skills and breadth,
2. the major for depth in one field, and
3. electives, which can shape your education in directions you choose. Each of these will be described in later sections.

These are the seven basic requirements for your B.A. or B.S. degree defined in the California Code of Regulations:

- Complete a 72 quarter-unit program of General Education-Breadth requirements including 12 upper-division (3000 or higher) units in G.E. Areas B6, C4, D4 (details to follow).
- Complete one of the majors described in this catalog.
- Complete the U.S. history, U.S. Constitution, and California state and local government requirement through coursework or exams (details to follow). You must also complete one course for the Cultural Groups/Women requirement.
- Satisfy the University Writing Skills Requirement by passing two freshman-level English composition courses (ENGL 1001 and 1002) and the upper-division University Writing Skills Requirement (details to follow).
- Complete a minimum of 45 quarter units in residence enrolled as an admitted student at Cal State East Bay. Up to 36 units taken through Open University and Special Session may be counted for residence. Units in residence must include at least 36 upper division units, 18 units in your major, and 12 units of G.E. (Units you earn at other institutions, and units you earn through Credit-by-Examination are not residence units.)
- Complete at least 180 quarter units for your B.A. degree, 182 quarter units for your B.F.A. degree, or 180-190 quarter units for your B.S. degree. At least 60 of these units must be in upper division courses (courses numbered 3000 and above). No more than 60 units can be graded in the Credit/No Credit pattern (CR/NC or A/B/C/NC). No more than 36 units can be in Continuing Education, Open University, or correspondence credit, and no more than 45 units can be earned credit-by-examination (excepting Advanced Placement).
- Attain a grade point average of at least 2.00 on a 4.00 scale in all units you attempt at Cal State East Bay, all the units you attempt including transfer units, and all units you attempt in the major regardless of the department in which they are taught.

Systemwide Placement Test Requirements

The CSU requires that each entering undergraduate, except those who qualify for an exemption, take the CSU Entry Level Mathematics (ELM) examination and the CSU English Placement Test (EPT) prior to enrollment. These placement tests are not a condition for admission to the CSU, but they are a condition of enrollment. These examinations are designed to identify entering students who may need additional support in acquiring college entry-level English and mathematics skills necessary to succeed in CSU baccalaureate-level courses. Undergraduate students who do not demonstrate college-level skills both in English and in mathematics will be placed in appropriate remedial programs and activities during the first term of their enrollment. Students placed in remedial programs in either English or mathematics must complete all remediation in their *first year* of enrollment. Failure to complete remediation by the end of the first year may result in denial of enrollment for future terms.

Students register for the EPT (www.csuenglishsuccess.org/ept) and/or ELM (www.csumathsuccess.org/elm_exam). Campus may establish deadlines by which new students must register for and/or take placement exams as a requirement for enrollment.

Questions about test dates and registration materials may be addressed to the Testing Office in Library, Room LI 3165A or, visit the Testing Office Web site, or call (510) 885-3661.

English Language Requirement

Undergraduates

All undergraduate applicants whose native language is not English, and who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction, must present a score of 525 or above on the Test of English as a Foreign Language (TOEFL). Some majors and some campuses may require a higher score.

A few campuses may also use alternative methods of assessing English fluency:

- Pearson Test of English Academic (PTE Academic),
- the International English Language Testing System (IELTS), and
- the International Test of English Proficiency (ITEP).

Each campus will post the tests it accepts on its website and will notify students after they apply about the tests it accepts and when to submit scores.

The CSU minimum TOEFL standard for undergraduate is: 61 - INTERNET, 500 - PAPER

Cal State East Bay Scores:

- TOEFL (Test of English as a Foreign Language) Undergraduate: 525 (paper-based); 61 (internet-based)
- IELTS (International English Language Testing System) Undergraduate: 6.0
- APIEL (Advanced Placement International English Test) Undergraduate only: 3
- ELPT (English Language Proficiency Test, part of the SAT II) Only undergraduates and only U.S. citizens or permanent residents of the U.S. may use this test.

Graduates & Post-Baccalaureates

The CSU minimum TOEFL standard for graduate / postgraduate is: 80 - INTERNET, 550 - PAPER

Cal State East Bay Scores:

All graduate and post-baccalaureate applicants, regardless of citizenship, whose native language is not English and whose preparatory education was principally in a language other than English, must demonstrate competence in English by presenting one of the following:

- TOEFL (Test of English as a Foreign Language) Graduate: 550 (paper-based); 213 (computer-based); 79 (Internet-based)
- IELTS (International English Language Testing System) Graduate: 6.5

Some graduate programs may require higher scores on these exams. Please check the specific program section of this catalog for program-specific requirements.

Note: All test scores must be sent directly from the testing institution.

Music Auditions and Proficiency Exam Requirement

Students who declare a major in music must complete examinations and auditions to determine:

1. theory placement,
2. level of applied study,
3. piano proficiency, and
4. major performance ensemble.

These examinations are not a substitute for the *Advanced Placement Test in Music* and should not be confused with the Advanced Placement Program. Auditions and examinations are scheduled prior to the first week of each quarter. For additional information and specific appointment times, contact the Department of Music, MB 2571, or telephone 885-3135.

General Education-Breadth Requirements

PDF - Narrative Description of G.E. Requirements

The Cal State East Bay General Education (G.E.) Program is designed so that, taken with the major depth program and electives, it will assure that graduates have made measurable progress toward becoming truly educated persons for a diverse society. Particularly, the purpose of the G.E. Program is to provide means whereby graduates:

- achieve the ability to think clearly and logically, to find information and examine it critically, to communicate orally and in writing, and to reason quantitatively;
- acquire appreciable knowledge about their own bodies and minds, about how human society has developed and how it now functions, about the physical world in which they live, about the other forms of life with which they share that world, and about the cultural endeavors and legacies of their civilizations;
- come to an understanding and appreciation of the principles, methodologies, value systems, and thought processes employed in human inquiries;
- come to understand and appreciate the contributions to knowledge and civilization that members of diverse cultural groups and women have made.

The General Education Program is planned and organized to enable students to acquire abilities, knowledge, understanding, and appreciation as interrelated elements, not as isolated fragments.

The California State University G.E. program requires at least 72 quarter units distributed over six areas and governed by three general requirements. Transfer students must earn 60 units in lower-division courses that meet the requirements of the CSU or IGETC transfer plan. Twelve units of upper-division G.E. will be completed at CSUEB. The lists of courses meeting the requirements change from quarter to quarter and are not included in this catalog because they rapidly become outdated. The list of courses currently meeting each requirement appears in the online Class Schedule each quarter or at: <http://www20.csueastbay.edu/ge>

Before progressing very far into your G.E. and other degree requirements, be certain you have developed the **entry-level learning skills** in English composition and mathematics necessary for collegiate success. You must take the EPT/ELM tests before your first enrollment (if not exempt by the other test scores listed in the Registration chapter). If your skills are such that you can begin taking college-level English composition math or statistics immediately, do so at your earliest opportunity, as a freshman if at all possible. (Many majors, including Business Administration and the sciences, require much more math or statistics than the single G.E. course.)

If your skills are not at the collegiate level, you must enroll in Early Start during the summer before your freshman year, enroll in the appropriate remedial course(s) (again, described in the Registration chapter) in your first quarter and complete all remedial courses you need as soon as possible, as a freshman if at all possible. Students who fail the same remedial course twice, fail to enroll continuously in remediation as long as it is required, and/or who fail to complete remediation in six quarters will not be allowed to continue. More information about the Early Start Program may be found at: <http://www20.csueastbay.edu/prospective/after-youre-accepted/early-start/>

You will not be allowed to register once you have earned 90 units if your first freshman English composition course (ENGL 1001 or equivalent for G.E. Area A2) and your quantitative reasoning course (G.E. Area B4) have not been passed. Cal State East Bay requires that your freshman English composition course be passed before you attempt the Writing Skills Test in your first quarter with junior status (90 or more quarter units).

A word is necessary about the relationship of G.E. to your major. Normally no course in your major department, as designated by course prefix (for example, ANTH, ENGL, GEOL, MUS) can be applied to G.E., even if not applied to your major requirements. For Business Administration majors, courses with the prefixes ACCT, ENTR, FIN, ITM, MGMT, and MKTG will not count for G.E.; and THEA and DANC courses cannot be used by Theatre Arts majors. The only exceptions to this rule are in Area A, in Area B4, in Area C for a MLL course in another language from those in the major, in Area G4, and one course in a thematic freshman learning community (B1-3, C1-3, or D1-3).

On the other hand, courses required for your major, but offered by other departments (for example, MATH for Geology majors, MLL for English majors), can be applied to G.E.

This is why it is important to know your major before you get too far into the G.E. program. Most majors specify certain G.E. courses for their students. If you take a course other than the one specified, you will have to take the required course anyway. Also, if you do not know your major, you could take a course that subsequently ends up in your major and lose it for G.E. credit.

You can view and print the General Education Requirements for Native or Transfer students, as well as Graduation Checklists, respectively, by clicking the appropriate pdf link below.

Links to printable pdfs:

GE - Requirements for Native Students
Checklist - Graduation for Native Students

GE - Requirements for Transfer Students
Checklist - Graduation for Transfer Students

Second Composition Requirement

A course satisfying G.E. Area A2 (second composition requirement) must be passed with a grade of "A," "B," "C," or "CR."

Note: to receive general education credit for G.E. Areas: A1, A2, A3, or B4, students must take a course approved for the corresponding area and must receive a "C-" grade or better in the course. These courses may be taken as CR/NC, and a CR grade will satisfy the requirement

A course meeting the freshman composition requirement assumes that you should, at the time of entry, be able to write brief essays showing adequacy in:

- (a) selection of a controlling idea appropriate to the given writing task,
- (b) coherent development of that idea to a reasoned conclusion,
- (c) use of sentences that demonstrate some structural variety and contain language appropriate to the audience and purposes, and
- (d) control of conventions of standard written English (relative freedom from errors such as fragments, run-together sentences, faulty agreement, and improper pronoun reference) and of mechanics (capitalization, spelling, and punctuation).

The work of the freshman English course is to strengthen these skills by extensive practice in the writing of expository essays suitable for college-level credit. If you are not exempt from the English Placement Test (EPT) and do not score 147 or higher on the EPT test, you must pass one or more remedial English courses before enrolling in a G.E. Area A2 course.

Note: G.E. Area A2 must be completed by the time you reach 90 quarter units or future registration will be blocked.

Cultural Groups/Women (CGW) Requirement

A minimum of 3 quarter units of coursework must recognize the contributions to American civilization and knowledge that members of various cultural groups and women have made. The purpose of this requirement is to provide you with an introduction to the research, literature, and methodologies of the disciplines of ethnic studies and gender/women's studies from historical, cultural, social, and economic

perspectives. Courses are taught by faculty committed to the four competencies listed on the G.E. Program website: <http://www.csueastbay.edu/ge/native/cgw.html> and are designed to give you a comprehensive understanding of the contributions to U.S. society made by cultural groups [African Americans, Asian Americans, Latino(a) Americans, Native Americans] women, and gays/lesbians (hereafter referred to as "groups").

Performing Arts and Activities Requirement

G.E. Area F courses that fulfill the Performing Arts and Activities requirement provide an opportunity to develop an appreciation of the visual and performing arts and activities through direct experience. Students are guided by participation toward an understanding of the techniques, processes, and possibilities inherent in such aspects of culture as art, theatre, music, creative writing, and sport. Courses in this area enhance student development through accomplishment. At least 40% of the class time in these courses must be activity or performance.

U.S History and Government Code Requirement

CSU graduates are expected to have knowledge of: significant events in U.S. history; the role of major ethnic and social groups in these events; the political, economic, social, and geographic context of these events; the U.S. Constitution, U.S. political institutions and processes; the rights and obligations of U.S. citizens; the California Constitution; federal-state relations; and California state and local government, and political processes.

You can demonstrate your competence in these fields by either:

- (a) passing the CLEP exam in American Government or American History I: Early Colonization to 1877 and the California State and Local Government exam administered by the Testing Office, or
- (b) passing two courses (one course from each of the following two categories) which cover all three topics:

First Category:

- ES 1201 Ethnicity in American History I
- HIST 1101 History of the United States to 1877
- POSC 1201 American Political Institutions
- HIST 3400 America to 1900
- POSC 3441 American Constitutional Law: Government
- POSC 3442 American Constitutional Law: Rights

Second Category:

- ES 1202 Ethnicity in American History II

- HIST 1102 History of the United States Since 1877
- POSC 1202 Public Policy/California Politics
- HIST 3500 History of California
- POSC 3120 State and Local Politics and Government
- POSC 3150 Politics of California

Be aware that receiving credit for any courses applicable to this requirement through a national test such as Advanced Placement, CLEP, or at an out-of-state institution will not satisfy the California state and local government part of this requirement. Please contact the History or Political Science Departments for further information. Students who have completed part of the Code Requirement at a California community college should also consult the History or Political Science Departments to avoid duplicating coursework.

University Writing Skills Requirement (Undergraduate)

In addition to the lower-division General Education requirements for writing, the California State University system requires all students to demonstrate writing competency at the university level in order to receive a baccalaureate or master's degree. This requirement was implemented system-wide in 1977. You must satisfy the University Writing Skills Requirement (UWSR) in order to receive a degree from CSUEB unless you are exempt by one of the following criteria:

1. If you have previously satisfied the Graduation Writing Assessment Requirement at CSUEB or at another CSU campus, CSUEB will accept official certification of completion if the entire requirement, as specified by that CSU campus, was satisfied and you were a matriculated student at the time.
2. If you have graduated from any one of the CSU campuses; unless it is noted on your transcript that your USWR was not satisfied.
3. If you received an essay score of 4.5 or higher on the GMAT or GRE or an essay score of 53 or higher on the CBEST.
4. If you pass the Writing Skills Test (WST) at Cal State East Bay. See WST (Option One) below for details.
5. If you pass a first-tier writing course and possibly a second-tier writing course (if needed). See Course (Option Two) below for details.

As soon as you have completed 90 quarter units, you will be required to begin steps to satisfy the University Writing Skills Requirement. **DO NOT** try to satisfy this requirement before completing 90 units or the UWSR will not be met. Complete ENGL 1001 and ENGL 1002, which are graduation degree requirements, before attempting to satisfy the UWSR.

To satisfy the requirement at CSUEB, you may do one of the following:

- Option One: Register for and pass the Writing Skills Test (WST). See WST (Option One) below.
- Option Two: Enroll in and pass a first-tier writing course (ENGL 3000 or ENGL 3001) and possibly a second-tier course, as well. See Course (Option Two) below.

WST (Option One)

The Writing Skills Test consists of an analytic essay that requires you to demonstrate that you can think and write critically. You must pass the WST and satisfy the UWSR with a score of Clear Competence (8) to meet the requirement. If you fail the WST, you have only one opportunity to take it again. If you fail it again, your highest score of the two will determine your placement in courses. If your score is Limited Competence (6), you will be required to take the course option (see below). If your score is Developing Competence (7), you need only take a second-tier course to satisfy the UWSR (see below).

Course (Option Two)

ENGL 3000 and ENGL 3001 are the first-tier writing courses, designed to help students meet the University Writing Skills Requirement. Students who have taken the Writing Skills Test (WST) and have received Limited Competence (6) must take either ENGL 3000 or ENGL 3001 and perhaps a second-tier writing course as well. If you choose to meet this requirement through class work, you do not have to take the WST, although you may take it at any time after achieving junior status, for a total of two attempts, even when enrolled in a writing skills course. Generally speaking, ENGL 3000 is intended for native speakers of English, while ENGL 3001 is intended for non-native speakers. Based on end-of-course portfolio evaluation scores, at the end of the first-tier course you will be advised as to your next step, which will involve one of the following: you may be found to have met the UWSR requirement altogether; you may be directed to enroll in a second-tier course; or, you may be directed to repeat the first tier course.

Two second-tier writing courses are currently offered: ENGL 3003, and MKTG 3495. If you passed one of these courses prior to fall 2000, it may not meet the UWSR. For more information on these courses, contact the individual department.

If you have taken the first-tier writing course three times consecutively, have not passed, and have a letter of good faith effort from your most recent first-tier instructor, you may apply to the Dean of Undergraduate Studies for a waiver of the UWSR. If a waiver is granted, your permanent record will note that you were allowed to graduate without having satisfied the UWSR. If you do not satisfy the requirement and do not have a waiver approved, you will not be allowed to graduate. Contact the Dean of Undergraduate Studies for information on this waiver (510.885.2990).

If you receive a grade of "D+" or "D" in a second-tier writing course (taken Fall Quarter, 2000 or later), you may appeal to the Dean of Undergraduate Studies, for a waiver of the UWSR. If a waiver is granted, your permanent record will note that you were allowed to graduate without having satisfied the UWSR. If you do not satisfy the requirement and do not have a waiver approved, you will not be allowed to graduate. Contact the Dean of Undergraduate Studies for information on this waiver (510.885.2990).

If you have a verified disability and would like to request accommodations to assist you in satisfying this requirement, contact the Accessibility Services in the Library Complex 2440 or call 510.885.3868 (phone/TTY).

For more information on meeting the University Writing Skills Requirement, see the Testing Office website or call 510.885.3661

Undergraduate Residence, Units, and Grade Point Average Requirements

Residence Requirements

Complete a minimum of 45 quarter units in residence enrolled as an admitted student at Cal State East Bay. Up to 36 units taken through Open University and Special Session may be counted for residence. Units in residence must include at least 36 upper division units, 18 units in your major, and 12 units of G.E. (Units you earn at other institutions, and units you earn through Credit-by-Examination are not residence units.)

Unit Requirements

Complete at least 180 quarter units for your B.A. degree, 182 quarter units for your B.F.A. degree, or 180-190 quarter units for your B.S. degree. At least 60 of these units must be in upper division courses (courses numbered 3000 and above). No more than 60 units can be graded in the Credit/No Credit pattern (CR/NC or A/B/C/NC). No more than 36 units can be in Continuing Education, Open University, or correspondence credit, and no more than 45 units can be earned credit-by-examination (excepting Advanced Placement).

Grade Point Average

Attain a grade point average of at least 2.00 on a 4.00 scale in all units you attempt at Cal State East Bay, all the units you attempt including transfer units, and all units you attempt in the major regardless of the department in which they are taught.

Exams & Testing

Entry-Level Mathematics (ELM) Exam

The Entry Level Mathematics (ELM) Examination is designed to assess and measure the level of mathematics skills acquired through three years of rigorous college preparatory mathematics coursework (Algebra I and II, and Geometry) of students entering the California State University (CSU). The CSU ELM must be completed by all non-exempt entering undergraduates prior to enrollment in any course, including remedial courses. Students who score 50 or above on the ELM will be placed in college-level mathematics classes.

Exemptions from the ELM are granted only to those who present proof of one of the following:

- A result of Standard Exceeded: "Ready" for CSU or participating CCC college-level coursework in mathematics on the CAASPP Early Assessment Program (EAP) exam.
- A result of Standard Met: "Conditionally Ready" for CSU or participating CCC college-level coursework in mathematics on the CAASPP Early Assessment Program (EAP) exam and met the conditional requirement.
 - The Conditional requirement may be met by completing an approved math course in the 12th grade and earning a grade of "C" or better. Students who do not meet the conditional

requirement will need to participate in the CSU's Early Start Program, unless exemption was met through one of the following:

- **New SAT: A score between 520-560 on the mathematics section of the new SAT Test***
- **Old SAT: A score between 490 - 540 on the mathematics section of the old SAT Reasoning Test**
- A score between 20 - 22 on the mathematics section of the ACT Test
- **New SAT: A score of 570 or above on the mathematics section of the new SAT***
- **Old SAT: A score of 550 or above on the mathematics section of the old SAT Reasoning Test**
- SAT Subject Test: A score of 550 or above on the SAT Subject Test in Mathematics (level 1 or level 2)**
- A score of 23 or above on the ACT Mathematics Test
- A score of 3 or above on the College Board Advanced Placement Calculus AB or Calculus BC
- A score of 3 or above on the College Board Advanced Placement Statistics examination
- Completion and transfer to CSU of a college course that satisfies the requirement in Quantitative Reasoning, provided such a course was completed with a grade of "C" or better

** Note: In March 2016, the College Board began administering a new SAT. The new SAT scores are different than the old SAT scores. The CSU will accept both old and new SAT scores for students graduating in 2020 and prior. Students graduating after 2020 will be required to take the new SAT. **Note: there were no changes to the SAT Subject Tests; therefore, the cut score for the Subject Test in Mathematics (levels 1 or 2) remains the same.*

Students required to take this examination must do so as soon as possible after admission and before their first enrollment. If you fail to take the ELM test before your first term of enrollment, a hold will be placed on your registration until you do take the test(s). (The results of this examination do not affect admission.)

Prepare for the test seriously. Review your high school math or take a math refresher course. A performance that is less than your best will make you take more math than necessary. The exam consists of 50 multiple choice questions from three areas: algebra; geometry; and numbers and data.

The CSU has several websites where you can learn more about the ELM and take practice exams.

- CSU Math Success Web site: http://www.csumathsuccess.org/elm_requirement
- CSU Focus on Mathematics booklet: <http://www.calstate.edu/sas/documents/FocusonMath.pdf>

Students who cannot demonstrate basic competence at the level of intermediate algebra on the examination must take steps to overcome deficiencies in their first quarter of enrollment. Depending on the ELM test score, students will be required to enroll in MATH 800, MATH 900 and MATH 950. Courses beginning with zero are not applicable to the baccalaureate degree, but do count toward full-time status and financial aid.

Students who are required to enroll in remedial math coursework must enroll in such coursework in their first quarter and every quarter thereafter, including summer, until remediation is completed. A student who fails the same remedial course twice or does not complete remediation in six consecutive quarters (including summer) has a hold placed on future registration (and is disenrolled if already registered). The hold can only be removed by

1. completing the remedial course failed, or
2. completing all remedial courses (if six quarters have expired), or

3. completing a baccalaureate level mathematics course satisfying G.E. Area B4, Quantitative Reasoning (if 90 quarter units have been completed at another institution). Students who have completed more than 90 quarter units must complete the G.E. course before reentry.

Information bulletins and registration materials for the ELM examination will be mailed to all students who may be subject to the requirements.

The materials may be obtained from the Testing Office:

- <http://www20.csueastbay.edu/academic/colleges-and-departments/apgs/testing/tests/ept-elm/>

Note: There is a fee for the ELM.

English Placement Test (EPT)

The English Placement Test (EPT) is designed to assess the level of reading and writing skills of students entering the California State University. The CSU EPT must be completed by all non-exempt entering undergraduates prior to enrollment in any course, including remedial courses. Students who score 147 or above on the EPT will be placed in college-level composition classes.

Exemptions from the EPT are granted only to those who present proof of one of the following:

- A result of Standard Exceeded: "Ready" for CSU or participating CCC college-level coursework in English on the CAASPP Early Assessment Program (EAP) exam.
- A result of Standard Met: "Conditionally Ready" for CSU or participating CCC college-level coursework in English on the CAASPP Early Assessment Program (EAP) exam and met the conditional requirement.
 - The Conditional requirement may be met by completing an approved English course in the 12th grade and earning a grade of "C" or better. Students who do not meet the conditional requirement will need to participate in the CSU's Early Start Program, unless exemption was met through one of the following:
 - **New SAT: A score between 510 - 540 on the Evidenced Based Reading and Writing Section***
 - **Old SAT: A score between 460 - 490 on the Critical Reading section of the old SAT Reasoning Test**
 - A score of 19 - 21 on the English section of the ACT Test
- **New SAT: A score of 550 or above on the Evidenced Based Reading and Writing section***
- **Old SAT: A score of 500 or above on the Critical Reading section of the old SAT Reasoning Test**
- A score of 22 or above on the ACT English Test
- A score of 3 or above on either the Language and Composition or Composition and Literature examination of the College Board Scholastic Advanced Placement Program
- Completion and transfer to CSU of the credits for a college course that satisfies the CSU General Education requirement in English Composition, provided such a course was completed with a grade of C or better

** Note: In March 2016, the College Board began administering a new SAT. The new SAT scores are different than the old SAT scores. The CSU will accept both old and new SAT scores for students graduating in 2020 and prior. Students graduating after 2020 will be required to take the new SAT.*

Appropriate Coursework Based on EPT Results

Students who score 147 or above are eligible to enroll in ENGL 1001 College Writing I. Students with an EPT score lower than 147 will be enrolled in remedial English courses according to their score. Students who have not taken the EPT will be enrolled in ENGL 0801 The Intensive Learning Experience in Writing I until the EPT is completed. Questions regarding placements should be directed to the Office of General Education, SA 1500 (1st floor) in the Student Services and Administration Building.

Students who are required to enroll in remedial English coursework must enroll in such coursework in their first quarter and every quarter thereafter, including summer, until remediation is completed. A student who fails the same remedial course twice or does not complete remediation in six consecutive quarters (including summer) has a hold placed on future registration (and is disenrolled from classes if already registered). The hold can only be removed by 1) completing the remedial course which was failed, or 2) completing all remedial courses (if six quarters have expired), or 3) completing the baccalaureate level English course satisfying G.E. Area A2, Written Communication, (if 90 quarter units have been completed at another institution). Students who have completed more than 90 quarter units must complete the G.E. course before reentry.

Remedial courses are not applicable to the baccalaureate degree requirements. However, they do count towards full-time enrollment for financial aid.

You may take the EPT only once. Students whose EPT scores require them to complete remedial English coursework can gain admission to freshman English composition (ENGL 1001) upon completion of their last remedial course (ENGL 0735, ENGL 0803, or ENGL 0910).

Submitting Test Scores

Freshman and transfer applicants who have fewer than 60 semester or 90 quarter units of transferable college credit are strongly encouraged to submit scores, unless exempt (see "Eligibility Index"), from either the ACT or the SAT of the College Board. Persons who apply to an impacted program may be required to submit test scores and should take the test no later than November or December. Test scores also are used for advising and placement purposes. Registration forms and dates for the SAT or ACT are available from school or college counselors, or from Cal State East Bay's Testing Office (510) 885-3661.

Applicants may also write or call:

The College Board (SAT)
Registration Unit, Box 6200
Princeton, New Jersey 08541-6200

(609) 771-7588
www.collegeboard.org

ACT
Registration Unit, P.O. Box 414
Iowa City, Iowa 52240
(319) 337-1270
www.act.org

Advanced Placement Exams

Cal State East Bay grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of 3 or better will be granted 4-12 quarter units of transfer college credit.

The AP exams are prepared and offered by the College Board. Unit credit will be granted to those passing the exams, but no letter grade will be assigned or computed in a student's grade point average.

If you have Advanced Placement credit, request the College Board to send your test score(s) to the Office of Admission at Cal State East Bay.

Normally, if Advanced Placement course credits satisfy G.E. Area B, C, and/or D requirements, they will apply to sophomore year general education requirements and not to freshmen clusters because all freshmen benefit from participating in these learning communities. Only if the amount of Advanced Placement credit exceeds what can be applied to the second year will it be applied to freshmen clusters.

Please see the list of exams and credit awarded.

International Baccalaureate Exams

Cal State East Bay recognizes the International Baccalaureate (IB) as a challenging college-preparatory program. Four (4) to fifteen (15) units of college credit will be awarded for each IB Higher Level Examination passed with a score of 4, 5, 6, or 7. (No credit will be awarded for IB Subsidiary Level passes.) A copy of the official IB transcript must be supplied to the university when credit is requested. All credit is granted in terms of existing Cal State East Bay courses with equivalent subject matter determined by the department.

Please see the list of IB exams and the Cal State East Bay credit awarded.

Credit By Examination Policy

Students may challenge courses by taking examinations developed at Cal State East Bay. Credit shall be awarded to those who pass them successfully. The award of credit for successfully passing any approved examination is subject to the following conditions:

- Credit shall not be awarded for successful passage of any examination if the student previously took that examination during the past quarter.
- Credit shall not be awarded when equivalent degree credit has been granted for regular coursework, credit-by evaluation, or other instructional processes such as correspondence.
- Credit shall not be awarded when credit has been granted at a level represented by the examination in question.
- Duplicate credit shall not be awarded where there are overlapping tests, university level work, or both. Where there is partial overlap, the amount of examination credit shall be reduced accordingly.
- The total amount of credit earned on the basis of externally developed tests, which may be applied to a baccalaureate degree, shall not exceed 45 quarter units. Advanced Placement credit is excluded from this limit.

College Level Examination Program (CLEP)

This program was created by the College Board to allow students to demonstrate college-level achievement through a series of exams in undergraduate college courses. There are 2900 colleges that grant credit and/or advanced standing for CLEP exams.

California State University East Bay is an open test center and we welcome military personnel. All of the computer-based exams are administered in our testing office.

Please see the list of CLEP exams and the Cal State East Bay credit awarded.

Science Equivalency Exam

Students who pass the *American Chemistry Society Cooperative Examination* in General Chemistry at or above the 50th percentile will receive 5 units of credit.

Chemistry, English, Mathematics, and Music Placement Exams

Placement examinations are given in Chemistry, English, Mathematics, and Music. These are not admission tests, but a way to determine what courses best match your level of preparation. We strongly recommend completion of these tests before your first quarter of registration.

French and Spanish Language Placement Exams

Placement exams in French and Spanish languages are offered on a continuing basis through the Department of Modern Languages and Literatures. If you have prior language experience but are uncertain of your level of ability (elementary, intermediate, or advanced), you are encouraged to consult with a faculty advisor before enrolling in a French or Spanish language course. Placement exams are given only on the recommendation of faculty.

Challenging Courses

Students may challenge courses by taking examinations developed at Cal State East Bay. Credit shall be awarded to those who pass them successfully. No instructor is obliged to offer credit-by-examination for a course.

The university recognizes that exceptional students, by reason of special studies or experiences, may already have achieved the objectives of certain courses in the basic program; therefore, students with this background may petition to receive credit in selected courses by special examination. Such an examination is normally from three to six hours in length and may be oral as well as written. Each course may be challenged only once.

Students who wish credit under this plan must enroll for the course during the enrollment period for the units to be earned by the examination. The class being challenged for credit must be listed in the Class Schedule for the particular quarter. Obtain a petition for credit by examination from the office of the department offering the course, and get the permission of both the instructor and department chair. The examination must be administered during the first two weeks of the quarter and the results, in grade form, must be submitted to the Office of the Registrar by the end of the fifth week. The instructor is responsible for notifying the student of the results of the examination.

If the exam is passed with a grade of "C-" or higher, the letter grade and credit by examination will be indicated on the student's permanent record. If students receive a grade of "D+," "D," or "F" on the examination, the student must either continue taking the course formally or officially withdraw from it within one week after completing the examination. (Note: The instructor need not inform the Office of the Records and Registration of the grades "D+," "D" or "F.") Some departments (e.g., Modern Languages and Literatures) only allow their courses to be challenged for a "CR" grade.

No more than 36 quarter units of credit obtained by challenging courses may be applied toward the baccalaureate degree. No credit earned by examination may be used to satisfy the requirement of 45 quarter units in residence at Cal State East Bay.

Testing Services

The Testing Office provides standardized testing and scoring for students, faculty, and administration. The office administers a variety of tests including placement and proficiency tests for Cal State East Bay and other CSU campuses and national admission and matriculation tests for undergraduates and graduates.

There are two test requirements of which all students should be aware:

The EPT and ELM (*English Placement Test and Entry Level Math Test*) are required of all new undergraduates before enrollment except for a few categories of exemptions. You may be exempt from the EPT/ELM requirements if you can meet the waiver requirements. (See "Which undergraduate placement examinations do I need to take?" in the Registration chapter.) You will be mailed an EPT/ELM test application upon admission to Cal State East Bay. Contact the Admissions Office, Academic Advising and Career Education, or on the Testing Office website.

The Writing Skills Test (WST) must be taken by all undergraduate students at the beginning of the junior year, and by all graduate students upon admission to a program unless they elect to meet the requirement through coursework. For test dates and registration information, Please check the Testing Office website, and select WST.

Other tests for Cal State East Bay students to be aware of include the following:

The State Education Code State Education requirements in U.S. History, the U.S. Constitution, and California State and Local Government (CODE) in may be met by coursework or a special set of tests developed by the College Board called CLEP. For additional information and registration, please contact the Testing Office at (510) 885-3661.

Other tests administered by the Testing Office:

The ACT (American College Test) and the SAT (Scholastic Aptitude Test), one of which is required for entering freshmen and transfer students with less than 90 acceptable quarter units. Test results are not required of students earning high school grade point averages of 3.00 or higher (3.61 for nonresidents). Information about other tests administered on campus is available on the Testing Office website.

The MAT (Miller Analogies Test) is required by some graduate departments. See graduate program chapters in this catalog for further information. Additional information can be found by contacting the Testing Office at (510) 885-3661.

For information about the following contact the Testing Office at (510) 885-3661.

- CBEST (California Basic Educational Skills Test),
- CLAD/BCLAD (Bilingual Cross-cultural Language and Academic Development Examinations),
- CLEP (College-Level Examination Program),
- GMAT (Graduate Management Admission Test),
- GRE (Graduate Record Examinations),
- LSAT (Law School Admissions Test),
- MCAT (Medical College Admission Test),
- RICA (Reading Instruction Competence Assessment), and

- PRAXIS (Professional Assessments for Beginning Teachers)
- TEAS (Test of Essential Academic Skills)
- TOEFL (Test of English as a Foreign Language),

Orientation & Advising

Welcome New Students & Parents!

Cal State East Bay offers orientation and advisement programs prior to each quarter to introduce new students to the university and to prepare students for a successful journey to graduation. Through special programs planned for freshmen, transfer, international, and graduate students, Orientation provides essential information about degree requirements, campus resources, course registration, and student engagement. During Orientation, new students receive academic advising and learn about the campus from current students, faculty, staff, and administration. Tours of the campus are also available. Student Life and Leadership Programs recognizes that students enter the university from a variety of backgrounds. As a result, special orientation activities are offered to address the concerns of freshmen, transfer, re-entry, and graduate students, their families and their guests. First time freshmen are required to attend Orientation.

Both the Hayward Hills and Concord campuses offer orientation programs for students and their families. Detailed information about Orientation is mailed to all individuals who have been admitted. Students awaiting final notice of admission may attend Orientation, although attendance does not constitute admission by the university.

Specific information about Orientation is mailed directly to all new students and is included in the quarterly Class Schedule. Additional information about orientation programs is available through Student Life and Leadership Programs, New University Union, Room 2011, 510-885-3872, email: orientation@csueastbay.edu; website: www.csueastbay.edu/orientation.

Orientation

Main Campus (Hayward) Orientation

Orientation for Concord, International, and Graduate Students

Advising

Several sources for advising services exist on campus. The quarterly Class Schedule (available online at *MyCSUEB*) also includes information regarding advisement services. See also *Student Services* chapter for additional student services information.

Additional Assistance

Consulting with an Advisor

Career Preparation *Pioneer Jobs*

Change in Major, Degree, Minor or Credential Objective

Change of Name

Change of Address

Course Requirement Information

Faculty Office Hours

Registration Assistance

Academic Assistance

Transcripts Requests

Academic Advising and Career
Education (AAACE)

Program for Accelerated College
Education (PACE)

Credentialing Student Service Center
(CSSC)

Educational Opportunity Program (EOP)

Student Center for Academic
Achievement (SCAA)

Student Services Operation for Success
(SSOS)

EXCEL Program

Project IMPACT

Renaissance Scholars Program

Orientation

Freshman, Family & Transfer Orientation

Cal State East Bay invites you and your family to attend Orientation, the key to a successful beginning to your East Bay experience! Freshman, Family, and Transfer Orientation programs are coordinated through Student Life and Leadership Programs which is located in the New University Union, Room 2011. If you have any questions about Orientation, please call our office at: 510-885-3872 or e-mail: orientation@csueastbay.edu

Orientation for Concord, International, and Graduate Students

Concord, International, and Graduate students may attend other orientations. Contact the following offices to receive information:

- Concord Students: Contact Concord Transfer Center at cctransfercenter@csueastbay.edu or call 925-602-6399 to find out more about the Concord Campus Orientation.
- International Students: Contact the International Admissions Office at iao@csueastbay.edu for available orientation services.
- Graduate Students: Contact your major department about orientation information that may be offered, as not all graduate programs offer orientation.

Advising

Academic Assistance

Several sources for advising services exist on campus. The quarterly Class Schedule (available online at www.csueastbay.edu/schedule/) also includes information regarding advisement services.

- Academic Advising and Career Education
- Consulting with an Advisor
- Course Requirement Information
- Faculty Office Hours
- Registration Assistance
- Educational Opportunity Program
- EXCEL Program
- Project IMPACT
- Renaissance Scholars Program
- Student Center for Academic Achievement
- Student Services Operation for Success
- Testing Services

Academic Advising and Career Education

Academic Advising and Career Education (AACE) provides a full range of excellent academic advising and counseling services to all undergraduate students. Services include guidance and official updates on your progress toward completing your general education and graduation requirements (other than major requirements); assistance in developing realistic educational goals and a plan to achieve those goals; an explanation of complex academic policies and procedures; workshops throughout the year, and individual and group advising for new students.

AACE is the academic advising home for undergraduate students who have not yet declared a major at California State University, East Bay. We offer academic counseling and specialized assistance in exploring, researching and selecting a major based on your individual, educational and career goals. Undeclared students who are placed on academic probation are required to see an AACE academic

counselor and/or attend one workshop "Understanding Academic Probation" each quarter until good standing is achieved.

In addition, AACE provides counseling and support services for all undergraduates who are experiencing academic difficulties such as those on academic probation or those who have been recently disqualified. Students (non-EOP or EXCEL) on academic probation are encouraged to meet with an AACE counselor to discuss strategies for improving their grades and academic standing.

Program for Accelerated College Education (PACE)

Program for Accelerated College Education (PACE) is an innovative program which enables working adult students to make accelerated progress toward a Bachelor of Arts degree with a major in either Department of Human Development and Women's Studies or Liberal Studies Program. PACE classes are the same as those taken by students pursuing their degrees through the traditional university format. The only difference is the carefully structured course sequence which includes only courses in the evening, weekend and/or online, as well as the dedicated academic advising for PACE students. The PACE program is also available at the Cal State East Bay Concord Campus.

Convenient Locations

Hayward Hills Campus

Concord Campus

Credentialing Services

The Credential Student Service Center (CSSC), in the College of Education and Allied Studies provides a one stop center for all students inquiring about credential program application requirements and procedures and information about applying for or renewing teaching credentials. The CSSC is designed to inform and assist students in fulfilling application procedures, early field experience, meeting program requirements, and maintaining student records. The Credential Student Service Center is located in the Art Education Building Room 235, (510) 885-2272.

Educational Opportunity Program (EOP)

Established in 1969, the Educational Opportunity Program (EOP) provides admission and retention support services to low-income and educationally disadvantaged California residents who demonstrate the motivation and potential to succeed in college. EOP identifies and admits students who have the potential to succeed at California State University campuses, but who have not achieved their educational goals because of economic and/or educational background. EOP provides students with the resources, tools and

skills to ensure academic and personal success through a variety of academic support services. These services provided by EOP include recruitment, preadmission counseling, special admissions, a Summer Bridge program (for entering EOP freshmen), specialized orientation sessions, academic advisement, personal counseling, skill-enhancement workshops, career guidance, peer advising, support groups, social/cultural activities, referral services, and EOP grants for eligible students.

EOP accepts students who qualify for regular admission, as well as a limited number of students who do not meet regular admission criteria. Only low-income and educationally disadvantaged undergraduate students who need admission assistance and/or support services to succeed at Cal State East Bay are admitted to EOP. Additionally, students must be first generation, California residents or AB 540, and meet the income eligibility criteria. They must also demonstrate academic potential and motivation to succeed.

To apply for admission to the program, prospective students must complete the online *Cal State Apply* application for Undergraduate Admission and check the appropriate box for EOP services. Once the CSUEB application is submitted (online), EOP applicants will receive an online EOP link and have access to complete the EOP Applicant Information Form and two EOP recommendation forms. Students must have all three documents submitted in order for their EOP application to be complete.

Flash Note: CSUMentor will be changing to Calstate.edu/Apply beginning June 1, 2017.

EOP is a high-demand program which only accepts applications for Fall term from applicants new to the CSU system. Currently enrolled and/or previously enrolled students (not formerly in an EOP CSU program) are not eligible to apply. Applicants who submit all required documents will be reviewed and if selected, will be admitted to EOP. All EOP freshmen receiving exception admission are required to attend the EOP Summer Bridge program as a condition of their admission for Fall term.

For assistance or for further information about EOP, please visit the EOP Office at the Library Complex (LI), Room 2500, or online at www.csueastbay.edu/eop. Prospective applicants can also email us at eopadmissions@csueastbay.edu or call 510-885-4683.

Student Center for Academic Achievement

The Student Center for Academic Achievement provides academic support services that are as diverse as CSUEB's students - from peer tutoring, to group supplemental instruction sessions, to online assistance and tutoring. Our FREE services are available to fully matriculated CSUEB students. Our programs include:

- Peer Tutoring:
 - One-on-one assistance in Math, Statistics, and Writing with a trained peer tutor. The tutor's role is to not do the work for you, but to guide you in the process of learning the concepts in your course.
- Online Writing Lab:

- The SCAA Online Writing Lab (OWL) allows CSUEB students to submit papers online and receive tutor feedback via email. We make every effort to return your papers within 48 hours after submission
- eTutoring:
 - If you need assistance in subjects currently not tutored at the SCAA or cannot come to the SCAA during our regular operating hours, you can log in to our eTutoring platform on the SCAA website to get near-24/7 assistance in courses such as Accounting, Spanish, and Biology.
- Writing Associates Program:
 - Trained student tutors are paired with an undergraduate course for one quarter to assist students in writing assignments that engage undergraduate students in the entire writing process, including feedback and revision.
- Supplemental Instruction:
 - Provides peer-assisted, collaborate, and active study sessions that improve understanding of subject content, fosters critical thinking, and encourages life-long learning to classes that are considered "at risk" (i.e. large lecture classes).
- WST Prep Programs:
 - The SCAA offers one-time in-person workshops, an online workshop, and an intensive, invite-only WST Boot Camp.

Cal State East Bay students are encouraged to use the Center regularly to improve their academic performance no matter what their skill level or class standing. Students are also encouraged to attend events sponsored by the Center, such as our quarterly, late-night extended hours tutoring event and contests.

The Student Center for Academic Achievement is located in the Upper Mall of the Library. Call 510-885-3674 or visit our website for information regarding hours, specific tutoring times, workshop dates, event information, or to schedule an appointment.

Student Services Operation for Success

The Student Service Operation for Success (SSOS) is funded by the U.S. Department of Education. The SSOS program began in late 2011 and provides a full range of academic support services, counseling and cultural activities directed at historically underserved Asian American and Pacific Islander students. California State University East Bay is designated as an Asian American Native American Pacific Islander Serving Institution (AANAPISI). SSOS promotes academic success for Asian American and Pacific Islander students in college and helps students be career ready when they graduate. The program's services include: Peer Mentorship, Academic Tutoring, Student Club Sponsorship, Leadership Class, Asian and Pacific Islander themed campus events, Academic Lecture Series, Financial Aid Workshops, Career Readiness Workshops, SSOS Workshops and more.

To apply to the SSOS Program or to find out more about its services, email us at: ssos@csueastbay.edu, call 510-885-SSOS (7767), or visit our office at ST 120. Additional information can also be found on the website at: <http://www20.csueastbay.edu/academic/academic-support/ssos-aanapisi/index.html>

EXCEL Program

The EXCEL program (a TRiO Student Support Services program) is funded by the U.S. Department of Education. The program provides a variety of educational services for Cal State East Bay undergraduates who have a demonstrated academic need and are low-income, first-generation college or disabled. The major goals of the program are to increase the retention and graduation rates of program participants and to create a supportive environment that encourages academic success.

EXCEL Academic Life Planning Counselors assist students in developing academic plans to complete their undergraduate degrees and solve academically related problems. They also provide advising in general education requirements, career and goal planning, scholarship assistance, guidance on balancing academic and personal life, and graduate school admission.

Learning skills improvement is provided by the Learning Resources Counselor. Assistance includes diagnosing academic weaknesses in learning and language skills and providing support in test-taking, reading textbooks, taking lecture notes, study skills, time management, and offering tutoring in basic academic subjects.

EXCEL students also have access to a variety of reference books on careers, learning skills, English, mathematics, reading and scholarships on non-federal financial assistance available to women, minorities, and people with disabilities in California and throughout the United States. Information about summer programs and internships is also available.

To apply to the EXCEL Program or to find out more about its services, call 510-885-3722 or visit the main office located in the Library Complex (LI) Room 2450. Additional information can also be found on the website at www.csueastbay.edu/excel.

Project IMPACT

Project IMPACT is funded by a grant from the U.S. Department of Education TRiO Disability Student Support Services Programs to help eligible students with disabilities succeed in their academic program. The services provided by Project IMPACT are beyond the legally mandated services afforded to students with disabilities by Accessibility Services. Project IMPACT offers selected students individualized services such as:

- Academic Advising
- Tutoring
- Non-cognitive Skill Building (i.e., individual academic motivation, self-advocacy, perseverance, etc.)
- One-on-One Support
- Wellness Counseling
- Financial Aid and Scholarship Information

- Help with Choosing a Major and a Career
- Assistive Technology Computer Lab and Training

To be eligible for this program you must be:

1. A matriculating student at Cal State East Bay,
2. An individual with a disability,
3. A U.S. Citizen, national or permanent resident alien, and
4. Working toward your first baccalaureate degree.

For more information about Project IMPACT contact 510-885-2489 or visit:
<http://www20.csueastbay.edu/af/departments/project-impact/index.html>.

Renaissance Scholars Program

Jointly funded by the University, private foundations, non-profit organizations, and individual donations, the Renaissance Scholars Program provides a variety of educational and support services for current or former foster youth attending Cal State East Bay. The major goals of the program are to create the retention and graduation rates of program participants and to create a supportive environment that encourages academic success.

Renaissance Scholars assists students in developing life and leadership skills while providing a wide variety of services including academic, career, and psychological counseling, scholarship opportunities, emergency assistance, priority registration, priority placement in on-campus housing, recognition events, workshops, and field trips.

To qualify for Renaissance Scholars, a student must meet the following criteria:

- Be a current or former foster youth attending Cal State East Bay between the ages of 17-23
- Qualify for "Independent Student Status" under federal financial aid guidelines
- Be a California resident
- Be a graduating high school senior or incoming community college transfer student
- Have a minimum high school GPA of 2.0
- Transfer students must have earned a 2.0 GPA in all transferable coursework
- Demonstrate high motivation and potential

To find out more about the Renaissance Scholars Program browse the website at www.csueastbay.edu/renaissance, email us at renaissance@csueastbay.edu, call 510-885-4426, or visit the office in the Student and Faculty Support (SF) building, suite 202.

Additional Assistance

Consulting with an Advisor

Every student who enters Cal State East Bay is entitled to receive major advising from a faculty member in the department or, if taking an Interdisciplinary Studies major, a committee member in his or her

major. Undeclared Students, International Students, as well as most other undergraduate students, receive advising on General Education and other undergraduate degree requirements from Academic Advising and Career Education (AACE). All new students should see their advisors (major advisor and one of the AACE academic counselors) at least once each quarter during their first year at Cal State East Bay.

Freshmen and sophomores should develop a program with their advisors that will satisfy all requirements (general education, major, and minor or option if required) for the degree. Undergraduate transfer students are encouraged to attend orientation for their first advising session or contact Academic Advising and Career Education (AACE) at (510) 885-3621. Once transfer students receive the evaluation of their previous college credit, they should develop with their advisor a complete program of courses leading to the baccalaureate degree. Students should consult with their major and GE advisors before making changes to their program.

Career Preparation

AACE provides, in addition to advising, counseling, information and employment services to assist students in transitioning from the university to graduate school or the professional workplace. These services include career advising and coaching, career exploration and assessment, occupational information, job search assistance, and employment information and referral. The office maintains a comprehensive Career Library with books, periodicals, videos, and online resources pertaining to job search, career guidance, and labor market information. A searchable online database of all books in the AACE Library is available on its website.

AACE offers regularly scheduled walk-in hours for resume critiques and career-related questions. Appointments are also available for longer counseling sessions. In addition, career assessments are available in AACE and on the AACE website to provide personal assessment and occupational information.

AACE offers workshops throughout the year, at both the Hayward Hills and Concord campuses. Subjects include resume writing, interview techniques, finding an internship, and personal skills assessments. Workshop and event schedules are listed on the website and in the Events Calendar. Calendars are available in AACE, online, and at eight "Career Corner" locations on campus.

Employers conduct on-campus interviews for graduating seniors and alumni in the fall, winter, and spring quarters. Participants are encouraged to attend an orientation session, either online or in the Center, before registering for interviews.

AACE hosts job fairs throughout the academic year for all undergraduates and graduates to explore career options and employment opportunities. Job fairs feature employers from local, national, and worldwide organizations. AACE also sponsors targeted recruitment events with a specific career or employment focus.

AACE maintains an online job database listing hundreds of part-time, full-time, temporary, and seasonal jobs and internships.

Cal State East Bay alumni and other working professionals in a variety of career fields provide CSUEB students with valuable career exploration information by telephone, e-mail, or in person. These "Career Contacts," available on the AACE website, offer valuable insight into their career fields and experiences.

AACE's website (www.csueastbay.edu/aace) provides 24/7 access to information about its services, workshops and events, major and career information, job listings, resume and interviewing guidelines, and other career resources. Students can search for jobs, obtain information about occupations and career fields, participate in the On-Campus Interview program, and view the calendar of upcoming career workshops and job fairs.

Change of Major, Degree, Minor, or Credential Objective

Undergraduate or post-baccalaureate students who wish to change their baccalaureate major or degree objective or declare a minor, and graduate students who wish to change to unclassified or second baccalaureate status, must obtain the required form in the Enrollment Information Center on the first floor of the Student Services and Administration Building or on the University Web site under "current students". A change is not official until the form has been signed and returned to the Office of the Registrar. Students are responsible for the major or minor requirements in the Catalog in effect at the time they file the form.

Change of Name

Students may download the Personal Data Change form (for name changes) found on the University Web site under "current students," complete and submit the form with copies of required government issued documentation (e.g., marriage certificate, driver's license, or passport) to the Enrollment Information Center in the Student Services and Administration Building. Forms may also be mailed to the Office of the Registrar at Cal State East Bay.

Change of Address

Students may change their address online in *MyCSUEB*. Students must officially notify Cal State East Bay of an address change in order to ensure that all official correspondence is sent to the correct address. The University is not responsible for mailing correspondence to the incorrect address unless the student has formally made an address change.

Course Requirement Information

Faculty shall provide you with a course syllabus, which should be placed on the course Blackboard site at the beginning of the quarter, containing the following information:

- Name of instructor, office location, office hours, office telephone number, and @csueastbay.edu e-mail;
- Course number and title, classroom location, number of units, prerequisites, a course description, objectives and student learning outcomes;
- Required texts and any other required and/or recommended materials;
- Student-supplied equipment and materials necessary for course activities;
- Course specific requirements and their due dates, such as examinations, quizzes, papers, field trips, and labs;
- Grading policy, which includes the relative weight of examinations, quizzes, papers, class participation, and other factors, and the grading scale;
- Attendance and make-up work policies and implications for grading;
- The following statement and reference to University policies regarding cheating and academic dishonesty: "By enrolling in this class the student agrees to uphold the standards of academic integrity described at: <http://www20.csueastbay.edu/academic/academic-policies/academic-dishonesty.html>."
- Accommodations for students with disabilities. Sample statement: "If you have a documented disability and wish to discuss academic accommodations, or if you would need assistance in the event of an emergency evacuation, please contact me as soon as possible. Students with disabilities needing accommodation should speak with the Accessibility Services."
- Emergency information. Sample statement: "California State University, East Bay is committed to being a safe and caring community. Your appropriate response in the event of an emergency can help save lives. Information on what to do in an emergency situation (earthquake, electrical outage, fire, extreme heat, severe storm, hazardous materials, terrorist attack) may be found at: <http://www20.csueastbay.edu/af/departments/risk-management/ehs/emergency-management/index.html>. Please be familiar with these procedures. Information on this page is updated as required. Please review the information on a regular basis."

Faculties also are encouraged to include additional items such as:

- Course outline;
- Types of quizzes and exams (e.g., true-false, multiple choice, short-answer, essay);
- Availability of appropriate tutoring services;
- Policies regarding audio and video recording and use of electronic devices;
- Reference to University classroom behavior policies;
- Classroom food and drink policies.

Furthermore, faculty should advise you of their expectations for you in the course no later than the end of the second class. Any changes in course requirements should be communicated to you in a timely manner. It is your responsibility to read the course statement and to request any clarification of course policies. If you add the course after the first week of class, you must seek course information in a timely manner.

Note: This policy is to be implemented by each department.

Faculty Office Hours

The faculty of the university is available during regularly scheduled office hours, which are at times other than scheduled classes. The times of the office hours are posted outside each faculty office, at the faculty member's department, on the department website, and on the faculty member's course syllabi. The faculty member informs the department of his/her office hours the first day of classes each quarter.

Full-time faculty members maintain a minimum of three (3) office hours per week and also make provision for meeting with students by appointment at a mutually convenient time beyond the stated office hours. The full-time faculty member's office hours shall be held over at least two days and at least in half-hour blocks. Part-time faculty will maintain the equivalent of one (1) office hour per week for each four WTUs of their teaching load with a minimum of one hour and a maximum of three hours per week.

Faculty teaching online must also hold office hours and may make alternative arrangements with the Department Chair to be available online or by telephone. Online faculty's office hours must include at least one (1) hour of availability by telephone per week.

If for any reason a faculty member cannot meet the posted office hours, the faculty member will inform the Department Chair. If possible, the department will note the absence on the faculty office door.

Note: Normal office hours are to be maintained during the Final Examination period. If a final examination conflicts with a posted office hour, an alternative hour is to be posted for that week alone.

Registration Assistance

Students at Cal State East Bay can register for classes prior to each quarter via the university's online registration system in *MyCSUEB*. Demonstrations and instructions for the enrollment process can be found within the "Help" feature in *MyCSUEB*. Students requiring assistance may call the Office of the Registrar at (510) 885-2784 or visit the Student Enrollment Information Center on the first floor of the Student Services and Administration Building on the Hayward Campus

Transcript Requests

Students may obtain official transcripts of coursework taken at Cal State East Bay (including continuing education and special session courses) from the Office of the Registrar. Refer to the transcripts section on the university website for current ordering procedures and costs.

For transcript requests that arrive via the mail, the request should include: name, other name(s) which may appear on records, NetID or Social Security number, address, dates of attendance, and the complete address to which the transcript is to be sent. The university cannot be responsible for the consequences of failure to supply any of the above information. Mailed requests must also include a check (*payable to Cal*

State East Bay) for the current fee. **Please do not send cash with mailed requests.** Address the request to Office of the Registrar, Transcript Request.

Students with financial and judicial holds placed by the university, or with academic, document, library, equipment, or other obligations to Cal State East Bay, are not permitted to receive transcripts or to request transcripts to be sent to other institutions.

Registration & Enrollment

Registration Assistance

Students at Cal State East Bay can register for classes prior to each quarter via the university's online registration system in *MyCSUEB*. Demonstrations and instructions for the enrollment process can be found within the "Help" feature in *MyCSUEB*. Students requiring assistance may call the Office of the Registrar at (510) 885-2784 or visit the Student Enrollment Information Center on the first floor of the Student Services and Administration Building on the Hayward Campus

Registration

Possible Restrictions for Junior & Senior-level Students

Resident Freshmen Early Start Program

Student Classification

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Cross-Registration with University of California, Berkeley

Enrollment

General Enrollment Policies & "MyCSUEB" Campus Enrollment System

CSU Immunization Requirements

Full-time Enrollment for Veterans

Enrollment & Placement Exam Notification

Intrasystem & Intersystem Enrollment Programs

Enrollment & Degree Progress

Non-Matriculated Enrollment

Enrollment for High School Students

Special Registration Petitions

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Enrolling in Cooperative Education Courses

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Enrolling for Classes

Enrollment Appointment Times

Schedule Changes

Add/Drop Period

Adding Courses

Dropping Courses

Cancellation of Enrollment

Withdrawing from Courses

Withdrawing from the University

Registration

California Resident Freshmen Early Start Program

Entering resident freshmen who are not proficient in math or English, as determined by their ELM and EPT scores, will need to start the remediation process before their first regular term.

The goals of the Early Start Program are to:

- Better prepare students in math and English, before the fall semester of freshman year;
- Add an important and timely assessment tool in preparing students for college; and
- Improve students' chances of successful completion of a college degree.

Newly admitted freshman students who are required to complete Early Start will be notified of the requirement and options for completing the program as part of campus communications to newly admitted students.

Possible Registering Restrictions for Junior & Senior-level Students

If students have earned 90 or more baccalaureate-level quarter units without having passed ENGL 1001, or an equivalent course, they will not be permitted to register for additional coursework at Cal State East Bay. In addition, if they have earned 90 or more baccalaureate-level quarter units without having passed a course satisfying the General Education, Area B4 requirement in Quantitative Reasoning, they will not be permitted to register for additional coursework at Cal State East Bay.

Undergraduate Classification Level

Undergraduate students are assigned a class level according to the following plan:

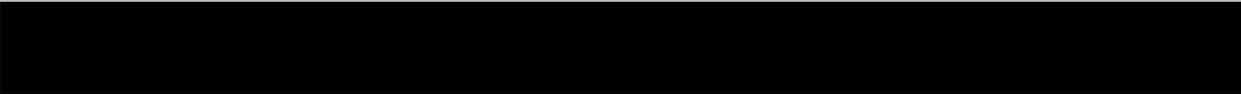
Quarter Units Earned Toward the Degree

Lower Division:

Freshmen	Fewer than 45
Sophomores	45 but fewer than 90

Upper Division:

Juniors	90 but fewer than 135
Seniors	135 or more
Graduating Seniors	150 or more, filed, and paid fee



Academic Course Load

Undergraduate Students.

The normal academic course load for full-time undergraduate students is 15-16 units of coursework per quarter (12 units is the minimum for full-time status) per quarter. Students may enroll for a maximum of 17 units during the enrollment period. Because each classroom hour normally requires two hours of outside study per week, working students should carefully balance the time required for academic preparation with outside commitments.

Graduate Students.

A graduate student who wishes to receive a 45-unit master's degree in one year needs to enroll in 15 units for three quarters or 11-12 units for four quarters (eight units a quarter is the minimum for full-time status). A graduate student who wishes to receive a 90-unit doctoral degree in Education should check the Educational Leadership for Social Justice, Ed.D. program in this catalog, as well as consult the Doctoral Handbook (available from the Department office) for academic load information.

Graduating Students

Graduating students (undergraduates who have filed for graduation and have 150 units completed; and, graduate or doctoral students who have filed for graduation and/or have been advanced to candidacy by the faculty of the graduate program) will then be permitted to enroll in up to the maximum of 22 units after the first enrollment period. Check the "Important Dates" page on the University Website for further information. Exceptions to exceed the maximum units may be made for students matriculated in

programs requiring more than 180 units to degree or who require a higher unit load to graduate in the traditional time needed to complete their program.

To enroll in more units exceeding the maximum number, approval must be secured by contacting the student's major department advisor and College Dean. The student's major department will notify the Office of the Registrar and the student will then be permitted to add the additional units during the open enrollment or Add/Drop periods.

Cross-Registration with Other Bay Area Two-Year & Four-Year Institutions

Programs have also been established to permit students from Cal State East Bay and those from the following campuses to take coursework at another school which is not available at their home campus:

- Cañada College,
- Chabot College,
- College of Alameda,
- Contra Costa College,
- Diablo Valley College,
- Holy Names University,
- John F. Kennedy University,
- Laney College,
- Las Positas College,
- Los Medanos College,
- Merritt College,
- Mills College,
- The National Hispanic University,
- Ohlone College,
- Solano College,
- St. Mary's College, and
- U.C. Berkeley.

Contact the counseling center or registrar at the host campus (or the Office of the Registrar at Cal State East Bay) for information on eligibility requirements, limitations and other privileges or restrictions.

Cross-Registration Program with University of California, Berkeley (UCB)

The purpose of this program is to increase a student's educational opportunities by maximizing the use of existing programs and courses available in the East Bay region. The following conditions apply:

1. No course of instruction available at Cal State East Bay may be taken in the other system. Enrollment is limited to one course per term.

2. Students may seek to enroll in a course offered at UCB upon the recommendation of their academic advisor and department chair. These advisors should insure the completion of any prerequisites before application is made. *Note: Forms are available from Enrollment Management.*
3. Students may seek to enroll in a course offered at UCB only with the permission of the course instructor, and the approval of the appropriate department chair and school/college dean. Each university gives first registration priority to its own students; therefore, concurrent enrollment may not be available in courses with limited spaces. A Cal State East Bay student should return the completed form and card to 120 Sproul Hall at UCB.
4. Students must be in good standing, be matriculated in a degree program (undergraduate or graduate) and have a full-time schedule (12 quarter units for undergraduates and 8 units of graduate level courses for graduate status) at Cal State East Bay in order to participate in the program. Cross-registration with UCB is normally not permitted during your first term of enrollment at Cal State East Bay. *Note: UCB is on the early Semester Calendar and Cal State East Bay is on the Quarter Calendar.*
5. Each campus has appointed a coordinator of the cooperative program who verifies the satisfaction of conditions 1-4 for each prospective participating student. The Office of the Registrar coordinates the program at Cal State East Bay.
6. No additional costs are charged to the student at Cal State East Bay. However, you will be billed the Cal State East Bay rates for the total academic load in the combined registrations. Because of the interval involved in sending transcripts, there will be a time lag in the appearance of grades on Cal State East Bay's permanent records.
7. Cross-registration is only possible in the fall and winter quarters because UCB is on the semester system.
8. Cross-registration will be cancelled at any time if the student becomes ineligible for participation.

Enrollment

General Enrollment Policies & the MyCSUEB Enrollment System

To enroll at Cal State East Bay, students must be admitted to the university:

- Enrollment is complete only when all enrollment requests have been properly recorded and students have paid all fees, deposits, and charges. Dates for enrolling in *MyCSUEB*, the Cal State East Bay enrollment system, are published on the University Web site under Important Dates.
- Students are given credit only for those courses in which they are officially enrolled in at the conclusion of the Add/Drop period, except for any course which they have officially filed a Withdrawal form(s) and received an approved withdrawal.
- Students will be held responsible for completing all courses for which they are enrolled, except for those courses from which they withdrew.
- If students enrolled in a course and do not attend initial class meetings, they may be dropped from the class if demand for the course exceeds capacity. Departments following this practice will make reasonable efforts to inform students of this action. Students should not assume, however, that non-attendance will result in them being automatically dropped.

- The university does not guarantee the availability of particular courses or sections because admission to classes is authorized only until the maximum number of students allowable in any section has been reached.

Approved by the University Academic Senate, the priority for enrollment is as follows:

- Students authorized to receive priority enrollment
- Graduating undergraduate seniors and graduating graduate students (undergraduates who have filed for graduation and have 150 units completed, and graduate or doctoral students who have filed for graduation and/or have been advanced to candidacy by the faculty of the graduate program).
- Students authorized to receive early enrollment.
- Freshmen
- Post-baccalaureate credential and doctoral students, and conditionally classified/classified graduate students in masters programs
- Seniors
- Juniors
- Sophomores
- Second baccalaureate, post-baccalaureate certificate program, and unclassified post-baccalaureate students
- AB 386 Students (online students from other CSU Campuses).
- The priority for enrollment for students enrolling in 6000-level and 8000-level courses is as follows:
 - All graduate students
 - Undergraduate students majoring in the department concerned
 - All other students

If a student or former student fails to pay a debt owed to Cal State East Bay, the university may "withhold permission to enroll, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt" until the debt is paid (see Sections 42380 and 42381 of Title 5, California Code of Regulations). For example, Cal State East Bay may withhold production of official transcripts of grades to any person owing a debt. If students believe that they do not owe all or part of an unpaid obligation, contact the Accounting Office. They will review the pertinent information, including information students may wish to present, and will advise students of their conclusions with respect to the debt. Students should check *MyCSUEB* (<https://my.csueastbay.edu>) on the university Web site to verify whether any holds exist that will block registration for the next or subsequent term.

The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant's suitability and the best interests of the University.

CSU Immunization Requirements

Entering CSU students are required to present proof of the following immunizations to the CSU campus they will be attending before the beginning of their first term of enrollment.

Measles and Rubella

All new and readmitted students must provide proof of full immunization against measles and rubella prior to enrollment.

Hepatitis B

All new students who will be 18 years of age or younger at the start of their first term at a CSU campus must provide proof of full immunization against Hepatitis B before enrolling. Full immunization against Hepatitis B consists of three timed doses of vaccine over a minimum 4 to 6 months' period. If you need further details or have special circumstances, please consult [name of office or campus personnel].

Meningococcal Disease Information

Each incoming freshman who will be residing in on-campus housing will be required to return a form indicating that they have received information about meningococcal disease and the availability of the vaccine to prevent contracting the disease and indicating whether or not the student has chosen to receive the vaccination.

Note: The above are not admission requirements, but are required of students as conditions of enrollment in CSU.

Note: The CSU anticipates a policy change to the immunization requirements for the 2017-2018 academic year. Update to follow.

Full-time Enrollment for Veterans

Full-time enrollment for veterans (or dependents of disabled or deceased veterans), or reservists under Chapter 30, 31, 33, 34, 35, or 106 is 12 or more units, according to V.A. regulations. Each quarter, veterans and eligible dependents should consult the Veteran Affairs Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits.

Note: Undergraduate and graduate students who apply for Veterans' Benefits (or for benefits as dependents of disabled or deceased veterans), must be enrolled in courses that apply to a definite program (baccalaureate or master's degree and/or credential).

Placement Exam Notification After Admission

After admission, each undergraduate student is sent a packet which indicates that taking the EPT and ELM exams are requirements which should be fulfilled at the next offering of the test. If you fail to take the EPT and/or the ELM tests before your first term of enrollment, a hold will be placed on your registration until you do take the test(s).

Intrasystem & Intersystem Enrollment Programs

Fully matriculated students enrolled at any CSU campus have access to courses at other CSU campuses on a space available basis unless those campuses/programs are impacted. This access is offered without students being required to be admitted formally to the host campus and in most cases without paying additional fees. Students should consult their home campus academic advisors to determine how such courses may apply to their specific degree programs before enrolling at the host campus.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California Community Colleges. Additional information about these programs is available from the Office of the Registrar.

CSU Fully Online Courses

Matriculated students in good standing may request enrollment in one course per term, offered by a CSU host campus. Enrollment requests will be granted based on available space, as well as completion of any stated pre-requisites. Credit earned at the host campus is electronically reported to the student's home campus to be included on the student's transcript at the home campus.

CSU Visitor Enrollment

Matriculated students in good standing enrolled at one CSU campus may enroll at another CSU campus for one term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus.

Intersystem Cross Enrollment

Matriculated CSU, UC, or community college students may enroll on a "space available" basis for one course per term at another CSU, UC, or community college and request that a transcript of record be sent to the home campus.

International Student Enrollment Policies

U.S. Customs and Immigration Enforcement requires students on non-immigrant F-1 and J-1 visas to pursue a full course of study in a specific program. Therefore undergraduate students are expected to complete a minimum of 12 units per quarter for three consecutive quarters. Graduate and second baccalaureate students must complete a minimum of 8 units per quarter for three consecutive quarters.

Note: Enrollment in courses through Open University in University Extension may not count for visa certification purposes.

Enrollment & Degree Progress

Undergraduate and graduate students who apply for the following must enroll in courses that satisfy their degree program (baccalaureate or master's degree and/or credential):

- Veterans' Benefits (or for benefits as dependents of disabled or deceased veterans),
- International students wishing INS certification,
- Student athletes wishing to compete in intercollegiate sports, and
- Students on most types of financial aid.

Non-Matriculated Enrollment

Most courses taught by regular Cal State East Bay faculty are available to students through Open University. To enroll in an Open University course, applicants must complete an online Open University application form each term they wish to attend. The application deadline is the eighth instructional day of the term. Go to <https://www.ce.csueastbay.edu/ce/programs/open-university/> to apply online and view application deadlines. Late applications will not be accepted.

High School Students Enrollment in Special Programs

High school students may be considered for enrollment in certain special programs if recommended by the principal and the appropriate campus department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given specific program and does not constitute a right to continued enrollment.

Called "dual matriculation," information pertaining to dual matriculation is available in the Student Enrollment Information Center on the first floor of the Student Services and Administration Building. Under these programs, eligible high school students may enroll for university credit if they satisfy the requirements for admission to this status.

Special Registration Petitions

Some courses may require a "Special Registration Petition" prior to enrollment that is available from the department offering the course. Typically, courses such as: Independent Study, Individual Study, Project, Departmental Thesis, University Thesis or Dissertation courses will require special registration petitions.

Petitioning for Graduate Credit as an Undergraduate

Undergraduate students may apply graduate courses taken during their final quarter of undergraduate attendance to a Cal State East Bay master's degree program. Students can take up to 13 units of courses during their final undergraduate quarter (no earlier) and apply them to their master's degree if they:

- have at least a 2.00 grade point average at Cal State East Bay;
- do not need the units or grade points to complete their baccalaureate degree;
- do not need the units for residence credit in their master's degree; and
- obtain prior permission from the department Chair of the graduate program in which they wish to apply the units.

While an undergraduate, you should obtain and complete a "Petition for Graduate Credit" form, and obtain the signed approval of the graduate department Chair to apply the courses to your master's degree. The form should be filed with Planning, Enrollment Management, and Student Affairs.

You cannot be matriculated in a baccalaureate degree and a master's degree program at the same time, so the units earned in your last undergraduate quarter that are applied to your master's degree are not residence credit in your graduate degree. Most Cal State East Bay master's degrees require 45 units, 32 of which must be in residence. If you take the maximum 13 units for your graduate degree in your last undergraduate quarter, you will have used up your non-residence degree credit and cannot use any transfer, University Extension, or Open University units for your master's degree.

If you start working on a basic Teaching Credential (5000-level courses in Teacher Education) before completing your baccalaureate, and are not already in the Fast-Track Teacher Preparation Program, you may have the units certified for application to your post-baccalaureate requirements. To qualify, the units must be in excess of the units needed for your bachelor's degree or any requirement of that degree. You should submit a written request to Enrollment Management. The request should cite all the courses to be certified for this type of post-baccalaureate credit and should be submitted after completing your baccalaureate degree.

Enrolling in Cooperative Education Courses

To enroll for a Cooperative Education course, students must complete a "*Cooperative Education Agreement*" form available from the Academic Advising and Career Education/Cooperative Education office, on the second floor of the Student Services and Administration Building. After obtaining the necessary approvals, the student may then enroll through *MyCSUEB*.

Note: International students on F-1 visas should contact the Center for International Education (510-885-2880) to discuss employment authorization for a Cooperative Education course before enrolling for the course.

Planned Educational Leave

Students may petition for a Planned Educational Leave to pursue educationally related activities which will enhance the prospect of successful completion of their academic program, but which do not require

enrollment at Cal State East Bay or any other institution of higher education. Students who are unable to enroll due to compulsory military service or because of a documented disability or because of pregnancy may apply for a leave of absence. Students requesting a leave should be in good academic standing in a program leading to a degree.

A Planned Educational Leave may be for a period of up to a total of two years (eight consecutive terms) if students are enrolled in a program leading to a degree. The leave must be approved by their faculty advisor or department chair and the Office of the Registrar. If approved, students will retain graduation catalog rights and may enroll as a continuing student, provided they return and enroll in the same major for the quarter indicated. Failure to return from a planned educational leave by the quarter indicated means loss of catalog rights and students will be required to apply for readmission and pay an application fee. The Planned Educational Leave form is available online; visit the University web site under "Current Students" to download the form.

Enrolling for Classes

Students enroll for classes in the preceding quarter using *MyCSUEB*, an automated online enrollment system. Approximately one week before enrollment begins, continuing students are e-mailed notification to their CSUEB Horizon accounts to check *MyCSUEB* for their enrollment appointment. New students may review their enrollment appointments in *MyCSUEB*.

The Class Schedule, through *MyCSUEB*, is generally available online around the same time as students receive their "Enrollment Appointment." Students should read the Class Schedule, and then meet with their academic advisor to plan their program of classes. Enrollment times are determined by the student's class level. Students will be able to enroll or make adjustments to their class schedule any time after their assigned enrollment time. See *MyCSUEB* for operating hours and for enrollment procedures. If students have any difficulties enrolling, they should contact the Office of the Registrar at 510-885-2784.

Enrollment Appointment Times

Students may enroll, during their assigned appointment, a maximum of 17 units. Graduating students (as defined in the general policies section) may add units after the first enrollment period, when they will then be permitted to enroll in up to the maximum of 22 units. Existing enrollment priorities will be kept based on class levels, with graduating seniors having highest priority.

Approximately one week before enrollment begins, continuing students are e-mailed notification to their CSUEB Horizon accounts to check *MyCSUEB* for their enrollment appointment. The appointment times include the student's date and time to begin enrolling for classes. New students will be able to view their enrollment appointments in *MyCSUEB*.

Schedule Changes

Students may add, swap and waitlist courses using *MyCSUEB* during their enrollment appointment, open enrollment, and the Add/Drop period. Beginning the sixth (6th) instructional day of the term, consent of the instructor and department offering the course is also required for enrollment.

Dropping courses may be done online through *MyCSUEB* during the first two weeks of the term, and students may change their grade type until the fifteenth (15th) instructional day of the term.

If students are on a Wait List and wish to add a class, *it is important that they attend the first class meeting*. See "Registering for Classes" on the university's Web site for specific instructions.

Note: Although departments may drop students from a class for failure to attend the first meeting, they do not have to do so. Therefore, if a student wishes to drop a class, they should be sure to do so in MyCSUEB during the first two weeks of the quarter during the Add/Drop period. Deadlines for shorter sessions may be different and students should consult the "Important Dates" page of the University website.

Add/Drop Period

Students may add and drop classes during the Add/Drop period. Beginning the sixth (6th) instructional day of the term, consent of the instructor and department offering the course is also required for enrollment. If students complete the enrollment process during the Add/Drop period, they are assessed a nonrefundable Late Registration fee. Students may drop a course during the Add/Drop period without it appearing on their permanent record. Courses dropped on or after the first day of the term may result in prorated charges. Deadlines for shorter sessions may be different and students should consult the "Important Dates" page of the University website.

Adding Courses

Students may add courses during their enrollment appointment, open enrollment and the Add/Drop period either by (a) using *MyCSUEB*, or (b) coordinating their enrollment with the appropriate academic department office for Independent Study, Individual Study, Project, and/or Thesis courses. Students have the right to add classes during these enrollment periods, subject to their having successfully completed the prerequisites (coursework and/or consent of instructor as stated in the Catalog) and to the availability of sufficient capacity in the class. Beginning the sixth (6th) instructional day of the term until the end of the Add/Drop period, students may also add courses with the consent of the instructor and academic department offering the course.

Dropping Courses

The word "drop" refers to official deletion of a course from a student's record. If students cannot continue enrollment in a course for which they enrolled in for that particular quarter, they must officially drop the course using *MyCSUEB*. Students may drop courses through the end of the Add/Drop period without the course appearing on their permanent record. After the Add/Drop period, students may only withdraw from courses.

Departments offering a class may drop students if they do not attend the first class meeting or if they have not met the course prerequisites that are published in the University Catalog. Some departments may call or email students as a matter of courtesy when they are being dropped, but other departments may not. There is no university policy and this determination will vary by department. Students should not assume that they will be dropped automatically if they do not attend class.

Cancellation of Enrollment

Students who fail to fulfill enrollment or matriculation requirements, or otherwise fail to adhere to academic or Cal State East Bay regulations, are subject to immediate administrative action which may result in the student being placed on Administrative Probation, or having enrollment for that term canceled. Students who do not maintain continuous enrollment for three consecutive terms are subject to cancellation of enrollment.

Withdrawing from a Course(s)

Students cannot "drop" after the end of the Add/Drop period, but they can "withdraw" until the seventh week of the term. The word "withdrawal" refers to official termination of enrollment in a class after the Add/Drop period. Students can withdraw from a class only for serious health or personal problems beyond their control. If they withdraw from a class, the class will appear on their record with a grade of "W." The administrative symbol "W" indicates that a student was permitted to withdraw from a course after the Add/Drop period with the approval of the instructor and appropriate campus officials. This designation carries no connotation of quality of student performance and is not used in calculating grade point average. Beginning the third week of classes, students will be permitted to withdraw from courses by printing the downloadable "Withdrawal" form from the University Web site under "current students". On the form, state the reason, obtain approvals of the instructor and department and return the completed form to the Enrollment Information Center or the Academic Services Office. The Concord Campus Academic Services may approve Withdrawals for courses offered at Concord.

Undergraduate students may withdraw from no more than 28 quarter units of coursework in their undergraduate career, including any courses taken in CSUEB Open University. When serious illness or accidents are documented and used as a basis for approval of withdrawal from all classes in the term, the units will not count against the 28 unit maximum allowed. Students who will exceed the maximum units allowed may petition for a waiver of the requirement to allow for additional withdrawals.

Withdrawals are normally not permitted after the seventh week of the quarter particularly for individual courses. Students who have completed work up to that point and cannot continue should normally be assigned an "I" (Incomplete) grade. If students have serious and compelling nonacademic reasons for withdrawal from a class after the seventh week they must write a statement outlining the reasons for the withdrawal and obtain written documentation of the circumstances from an impartial third party such as a doctor or lawyer. The document should be an original document (not a copy) on letterhead; then obtain the signatures of the instructor, department chair and college dean, and submit the form and documentation to the Student Enrollment and Information Center, 1st Floor, Student Services and Administration Building on the Hayward Hills Campus, or the Concord Campus Academic Services Office for review by the Registration and Records Appeals Committee. Approval of the withdrawal is not automatic. Withdrawal from any class in which the final examination was taken is not permitted, regardless of circumstances or documentation. Withdrawals will not be processed if students have taken the final examination for the course or have satisfied all the requirements for the course.

A withdrawal may not automatically result in a fee refund. Students should consult with Student Financial Services for any questions about fee refunds related to withdrawing from classes.

If students enroll for a course and fail to attend, but do not officially drop or withdraw, they will receive an appropriate administrative grade indicating failure ("WU" or "NC" depending on the grading pattern in which they enrolled). Refer to the *Grading & Academic Standards* chapter of this catalog.

Cancellation of Registration or Withdrawal from the Institution

Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term *are required* to follow the university's official withdrawal procedures. Failure to follow formal university procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available from the Enrollment Information Center.

- Undergraduate students may withdraw from no more than 28 quarter units of coursework in their undergraduate career, including any courses taken in CSUEB Open University. When serious illness or accidents are documented and used as a basis for approval of withdrawal from all classes in the term, the units will not count against the 28 unit maximum allowed. Students who will exceed the maximum units allowed may petition for a waiver of the requirement to allow for additional withdrawals.

Students who receive financial aid funds *must consult* with Office of Financial Aid, (510) 885-2784 (finaid@csueastbay.edu) prior to withdrawing from the university regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

A withdrawal may not automatically result in a fee refund. Students should consult with Student Financial Services for any questions about fee refunds related to withdrawing from classes.

Submitting a "Withdrawal" form is not required if students find it necessary to drop all courses in which they enrolled in using *MyCSUEB* during the Add/Drop period. For refund information, refer to the Refund of Fees section in the Fees & Financial Services chapter.

If students find it necessary to withdraw from the university after the Add/Drop period has ended (during the third through the seventh week of instruction), they must complete a "Withdrawal" form, obtain approval signatures from each instructor and department chair, and return it to the Enrollment Information Center or the Academic Services Office. Withdrawal at this time can be only for serious health or personal problems beyond the student's control. Normally withdrawal is not permitted beyond the seventh week of the quarter. If students have attended classes up to that time, they should discuss with the instructor the possibility of receiving an "I" (Incomplete) grade if circumstances prevent completion at the time. Withdrawals after the seventh week of instruction must have the reason substantiated in writing by an impartial third party and require the approval signature of the instructor, department chair and college dean. The petition is then reviewed by the Registration and Records Appeals Committee and approval is not automatic. A quarter from which a student withdraws is not counted as an interruption of enrollment for continuing student status. Even if approved, a late withdrawal petition does not result in a fee refund. Students should consult with Student Financial Services for any questions about fee refunds related to withdrawing from classes.

A Withdrawal (W) will be recorded for each course in the term on a student's permanent record if they withdraw from the university after the Drop period. The administrative symbol "W" indicates that a student was permitted to withdraw with the approval of the instructor and appropriate campus officials. This determination carries no connotation of quality of student performance and is not used in calculating grade point average. If students withdraw from the university, but do not file an official "Withdrawal" form, they will receive appropriate administrative grade(s) indicating failure ("WU" or "NC" depending on the grading pattern in which they are enrolled).

Grading & Academic Standards

These are university grading and academic standards which apply to all academic courses and programs offered at Cal State East Bay, including, but not limited to, courses offered in self-support, state-support or special sessions.

Policies & Procedures	Academic Standards
University Grading Policy	Undergraduate Academic Honors
Appealing an Inappropriate Grade	Qualifying for the Dean's & Honors List
Final Examination Policy	Grade Point Average
Availability of Grades after Finals	High School Honors Courses
Grade Forgiveness & Course Repetition	Academic Grading Patterns
Course Equivalencies for Purposes of Grade Forgiveness	Administrative Grades
Grade Forgiveness of Previous Terms	Undergraduate Probation & Disqualification Policy
Grade Forgiveness Policy at Cal State East Bay	Undergraduate Reinstatement after Disqualification
Grade Forgiveness Policies of Other Institutions	Standards of Research with Human Subjects
When Grade Forgiveness is Not Possible	

Policies & Procedures

University Grading Policy

It is an integral part of the teaching responsibility of the faculty to provide careful evaluation and timely assignment of an appropriate grade to each enrolled student. There is a presumption that grades assigned are correct. It is the responsibility of anyone appealing an assigned grade to demonstrate otherwise. In the absence of compelling reasons, such as instructor or clerical error, prejudice, or capriciousness, the grade determined by the instructor of record will be considered final.

For purposes of correcting an error, an instructor may change a grade with approval of his/her department chair and college dean. No grade may be changed once graduation has been recorded unless an error has been made, in which case students have one term after their degree has been awarded to dispute the grade and have it corrected, or if a Grade Appeal petition has resulted in a grade change. The administrative symbol for withdrawal cannot be assigned by a faculty member.

See the Registration & Enrollment chapter for the description of withdrawal policies and procedures.

Appealing an Inappropriate Grade

If you question the grade you received in a course, attempt to resolve the problem with your instructor. If you are not satisfied, discuss the issue with the chair of the department in which the course is offered. If the issue is not resolved, see the dean or associate dean of the college in which the course is offered. If all previous actions fail, contact the Presidential Appointee to the Grade Appeal and Academic Grievance Committee by calling 510-885-3716 (the Academic Programs and Graduate Studies Office). If you are a candidate for a degree, notify your graduation evaluator that a question is pending resolution. Remember, once your degree has been posted, no grade changes will be recorded.

Grade Appeal and Academic Grievance Committee

This is your recourse to resolve serious cases of alleged academic unfairness. After every effort by all parties to resolve the dispute has been ineffective, discuss your case with the President's appointee to the Grade Appeal Committee. The Presidential Appointee will assist you in exhausting all normal channels and, if necessary, in filing a Petition (see PDF link below) for a Grade Appeal Hearing. Submit your Petition and supporting documentation to the Academic Programs and Graduate Studies Office (Student Services and Administration Building). The Grade Appeal Committee will review your documentation and the response(s) filed by the other parties involved in the dispute. If the committee finds possible grounds for a grievance, a Hearing Panel will be convened to hear the case. Under normal circumstances, you must file your Petition before the end of the quarter following the quarter in which the alleged incident took place.

The Grade Appeal Committee is empowered to change a grade in accordance with the Grade Appeal Document and to assign a grade in cases where the instructor may have assigned an unfair academic grade. The Grade Appeal Committee is authorized to change a grade only after it has conducted a proper review of the case.

Grade Appeal Petition Form

For additional information see the *Student Conduct, Rights & Responsibilities* chapter.

More information is available from the Office of Academic Programs and Graduate Studies (Student Services and Administration Building; Tel. 510-885-3716)

Final Examination Policy

The student can expect the instructors to provide comprehensive course requirement information for each course at the beginning of the quarter. This will include the work that is expected of the student and the basis on which the student will be evaluated. Most courses have graded assignments throughout the quarter and a final examination or paper. The university's policy states that final examinations must be given only at the times published in the *MyCSUEB*. The purpose of this policy is to ensure fairness for all students. Exceptions are, therefore, rare and must be approved in writing by the department chair. A student should contact the department chair or college dean if they believe this policy is not being followed. If the student is in a course which has a separate laboratory, activity or discussion section, the instructor is permitted to give a separate final examination (but only for that section) during the last regularly scheduled meeting of the section.

Availability of Grades after Finals

Grades for the current quarter are available online after faculty submit their official grade rosters and grades are official. To check grades and academic standing visit **MyCSUEB** at: <https://my.csueastbay.edu>

Grade Forgiveness & Course Repetition

Grade Forgiveness is the process that matriculated students seeking a bachelor's degree follow, under limited circumstances, to remove the punitive effect of past academic failures. (A matriculated student is regularly enrolled after being admitted to the university.)

There are two ways to achieve Grade Forgiveness, Repetition of a Course and Forgiveness of Previous Term(s). Please contact the Department of General Education (SSA Building, Room 1500, 510-885-1941) for information regarding Grade Forgiveness and Repetition of Courses.

Repetition of a Course

You may repeat a course in which you have earned a grade of C-, D+, D, F, WU, NC, or IC for grade forgiveness two times, which means your earlier attempt(s) is ignored in GPA calculations, but not removed from your record, subject to the following conditions:

- Petitioning for grad forgiveness
- GE course equivalencies

Course Equivalencies For Purposes of Grade Forgiveness

Certain General Education courses are considered equivalent for the purposes of grade forgiveness. Therefore, students will receive credit for only one course in each of the following groups:

BIOL 1000 - Basic Concepts in BiologyPreview

BIOL 1001 - Introduction to BiologyPreview

BIOL 1005 - How Things Work: The Human BodyPreview

BIOL 1007 - Human BiologyPreview

BIOL 2010 - Human Physiology and Anatomy IPreview

BIOL 2011 - Anatomy and Physiology IPreview

BIOL 2020 - Human Physiology and Anatomy IIPreview

BIOL 2021 - Anatomy and Physiology IIPreview

CHEM 1601 - Basic Chemistry for the Health SciencesPreview

CHEM 1605 - Basic Chemistry for Healthier LivingPreview

CHEM 1610 - Survey of Basic Chemistry for Health SciencesPreview

CHEM 1615 - Survey of Basic Chemistry for Healthier LivingPreview

DANC 1201 - Dance for All Bodies and AbilitiesPreview

DANC 1202 - World Dance: Oral Traditions and the StagePreview

DANC 1203 - Exploring the Creative and SpiritualPreview

ENSC 2800 - Environmental Problems of CaliforniaPreview

ENSC 2801 - Global Environmental ProblemsPreview

ENSC 2802 - Global Environmental IssuesPreview

ENVT 2000 - Introduction to Environmental StudiesPreview

ENVT 2001 - Environmental PerspectivesPreview

GEOL 1001 - Introduction to the Earth SciencesPreview

GEOL 1003 - How Earth Systems WorkPreview

GEOL 1005 - Earth SciencePreview

GEOL 1006 - Earth Systems and EnergyPreview

GEOL 2300 - Natural DisastersPreview

GEOL 2301 - Natural HazardsPreview

HIST 1014 - World Civilizations IPreview

HIST 1017 - Ancient World CivilizationsPreview

KIN 1625 - Nutrition and PerformancePreview

KIN 1626 - Nutrition and Performance for Bodies at PlayPreview

LIBY 1210 - Introduction to Information LiteracyPreview

LIBY 1551 - Information Skills in the Electronic AgePreview

PHIL 1102 - Issues in Environmental EthicsPreview

PHIL 1103 - Science, Ethics, and TechnologyPreview

PHIL 1104 - The Philosophy of Environmental Science and PolicyPreview

PHYS 1500 - How Things WorkPreview

PHYS 1700 - Elementary PhysicsPreview

PSYC 1000 - General PsychologyPreview

PSYC 1001 - General Psychology and SocietyPreview

PSYC 1005 - General Psychology for Healthier LivingPreview

SOC 1000 - Introduction to SociologyPreview

SOC 1002 - Introduction to Sociology of Individual and SocietyPreview

STAT 1000 - Elements of Probability and StatisticsPreview

STAT 2010 - Elements of Statistics for Business and Economics

Grade Forgiveness of Previous Term(s)

Under the most extenuating circumstances, you can petition to exclude from degree requirements and GPA computations up to three quarters (or up to two semesters) of coursework taken at any institution. To have your petition approved, you must meet certain conditions and follow the process described below.

Approval of your petition requires satisfaction of all the following conditions:

- the coursework to be excluded does not represent your scholastic ability, and that this substandard performance was due to an extenuating circumstance;
- you would be compelled to complete additional courses or enroll in additional quarters to achieve your baccalaureate degree if your petition is not approved;
- five years have elapsed since the most recent coursework to be excluded was completed
- you completed at least 22 units at Cal State East Bay since the last term to be disregarded, with a 3.0 GPA, 45 units with a 2.5 GPA, or 67 units with a 2.0 GPA.

You must complete the following steps:

- complete your portion of the "Petition for Forgiveness of Previous Term"
- obtain your major advisor's approval on the petition
- file the petition in the Student Information Lobby. If you are eligible, the Appeals Coordinator certifies that you meet the above conditions, attaches a copy of your academic record, and forwards the package to the Grade Forgiveness committee in the Provost's Office. The committee acts upon all petitions by majority vote.

If the Appeals Coordinator determines you do not meet the conditions, you are notified and no action is taken.

Grade Forgiveness Policy at Cal State East Bay

To request grade forgiveness, you must file a "Petition for Grade Forgiveness" with the General Education Office, Room 1500, Student Services and Administration Building, if:

- the course prefix and/or number has changed, or the course is Independent Study.
- your first attempt was at another accredited post-secondary institution.

You pick up the petition in the department offering the course at Cal State East Bay. The chair of the department must certify that the courses are equivalent. (This means the course content is substantially identical. It does not mean merely that the courses meet the same requirement.) After the petition has been approved by the chair of the department offering the course, you must file it with the GE Director in the GE Office before the end of the Add/Drop period for that quarter. The GE Director must then approve your petition. A denied petition is promptly mailed to you by the GE Office. An approved petition is sent to the Office of the Registrar. The previous attempt will be excluded from your GPA calculations after the end of the quarter in which you repeat the course and may not be reflected in that quarter's grade report.

Note: The CSU system normally forbids retroactive Grade Forgiveness. File your petition before reregistering for the course to give yourself time to adjust your program if your petition is denied.

There are unit limit on grade forgiveness. Students are normally limited to 42 units, 24 of which will be forgiven and the additional 18 will be averaged.

- You can only receive grade forgiveness for 24 units of coursework.
- You may repeat an additional 18 units of coursework for grade averaging. The quality hours and quality points of the repeated courses will be averaged, while the units earned for these subsequent attempts will not be counted.
- After completing the 42 units of grade forgiveness and grade averaging, students who require additional units may petition through their advisor (AACE, [EOP or EXCEL if member of program], GE, major). If the petition is approved, the GE Office will also decide if the additional units will be given grade forgiveness or grade averaging.

Note: You should not file a "Petition for Grade Forgiveness" if the original grade is still an "I." You cannot get Grade Forgiveness because the "I" does not affect your GPA. If the grade has been changed to an "IC," Grade Forgiveness is possible.

Grade Forgiveness Policies of Other Institutions

Cal State East Bay honors the Grade Forgiveness policies of other institutions as stated on their transcripts.

Note: Cal State East Bay honors the exclusion policies of the originating institution. Each term excluded by another institution reduces by one the number of terms that Cal State East Bay will consider for exclusion.

When Grade Forgiveness is Not Possible

Grade Forgiveness is not possible in the following circumstances (except with approved petition):

You cannot repeat any one course for Grade Forgiveness, more than twice. (Some departments may restrict grade forgiveness to only one repeat.) If you do, the quality hours and quality points of all subsequent repeats will be averaged, while the units earned for these subsequent attempts will not be counted. These units will be counted as part of the 18-unit limit described in 2, above.

You cannot receive Grade Forgiveness for a grade of "C" (2.0) or better. If you do repeat a class in which your original grade was a "C" or higher, the quality hours and quality points of all attempts will be used to calculate your grade point average, while only the units earned for the first attempt will be counted. These units will be counted as part of the 18-unit limit described in 2, above.

Grade Forgiveness cannot be approved for any grade assigned as a result of academic dishonesty.

If the original grade(s) was assigned at Cal State East Bay, Grade Forgiveness by repeating a course at another institution is normally not possible. (Exceptions can be made for disqualified students who file an approved petition prior to repeating the course elsewhere, but only to the extent necessary for their readmission.) Disqualified students repeating courses through Open University at CSUEB, only to the extent necessary for their readmission, do not need to file a petition.

Academic Standards

Undergraduate Academic Honors

In the Grading & Academic Standards chapter, the Dean's and Honors Lists (the annual academic honors recognition) are discussed. Cal State East Bay also recognizes undergraduate students at graduation for consistently high scholarship through their entire academic careers, which includes coursework they may have transferred in from other institutions. If you graduate from Cal State East Bay during any quarter covered by this catalog, you will qualify for Graduation with Honors if your academic record meets the following criteria.

- To qualify for any category of honors, you must have a minimum cumulative and Cal State East Bay grade point average of 3.65, and
- You must have completed at least 60 quarter units of coursework in residence (as defined in the university catalog) at Cal State East Bay.
- You will qualify for one of these categories of honors at graduation on the basis of the following grade point average in all college work:
 - **3.85-4.00 summa cum laude** (highest honors);

- **3.75-3.84 magna cum laude** (high honors);
- **3.65-3.74 cum laude** (honors)

The GPA is officially calculated at the time you have completed your graduation requirements. Therefore, graduation with honors is governed by the catalog in effect at the time of your graduation. The honors designation will be noted on your diploma and official transcript. The conditions noted above apply equally to second-baccalaureate degree candidates. Post-baccalaureate and graduate students are not eligible for university honors.

Qualifying for Dean's and Honors Lists

Students who achieve academic distinction in any academic quarter, as evidenced by a grade point average of 3.80 or higher in 12 units or more, in addition to any units graded CR/NC, will be included on the Dean's List for that quarter. Students with a grade point average in the range of 3.60-3.79 will be included on the Honor's List for that quarter. Recognition of these honors will be posted to the student transcript for each quarter that the student is on the list.

Grade Point Average (GPA)

The student's grade point average (GPA) is calculated by dividing the total number of quality hours (units attempted, excluding CR/NC courses) into the number of grade (quality) points earned. If they repeat a course required in the major, their department has the discretion, under specific circumstances, not to include an earlier attempt in the GPA calculation. The approval not to include the earlier attempt in the student's degree program must be submitted by their department to the Office of the Registrar. This may be done at any time while a student is enrolled in the degree program, but may not be done after they have been awarded their degree.

Also see *Glossary of Terms & Definitions* for more information on grade point average and its significance.

Grading Honors Courses for Freshmen

Grades earned in up to eight semester courses designated as honors courses in approved subjects (taken in the last two years of high school), receive additional points in grade point average calculations. Each unit of "A" in approved courses will receive a total of 5 points; "B," 4 points; "C," 3 points; "D," 1 point; and none for "F" grades. (Up to two 11th grade IB, AP, or honors courses with 11th or 12th grade course content taken in 10th grade may also receive bonus points.)

Academic Grading Symbols for Undergraduate Courses

Academic Grading Symbols

Academic Symbols	Definitions	Grade (Quality) Points Earned
A	Excellent	4.0
A-	Excellent	3.7
B+	Good	3.3
B	Good	3.0
B-	Good	2.7
C+	Satisfactory	2.3
C	Satisfactory	2.0
C-	Satisfactory	1.7
D+	Poor	1.3
D	Poor	1.0
F	Failing	0.0
CR	Credit	0.0
NC	No Credit	0.0

"A-F" Grading Pattern

Courses required for your major in your major department are taken in this pattern. Specific department exemptions are noted in the course description. Faculty use of "+" or "-" is optional.

Credit/No Credit and A/B/C/No Credit Grading Patterns (CR/NC and A/B/C/NC)

You may enroll in up to 60 units in credit/no credit patterns as an **undergraduate**. There are two credit/no credit patterns: (1) "CR/NC," and (2) "A/B/C/NC." Some courses are only offered in the "CR/NC" or

"A/B/C/NC" patterns. You can select the "CR/NC" pattern for most other courses subject to certain restrictions. You can choose the "CR/NC" pattern during Registration until the end of the Add/Drop period. No changes to, or from, the credit/no credit pattern are permitted after the Add/Drop period. There are no exceptions to this rule. No course in your major department, regardless of course prefix, may be taken "CR/NC," unless that is the only grading pattern in the course.

Units that you earn in courses taken under these grading patterns will apply to your degree requirements as long as they are not remedial courses (courses numbered 0800 - 0999). "CR" signifies you mastered the material at the level of "C-" or higher. "NC" signifies a work level of "D+" or lower. Faculty use of "+" or "-" is optional.

Administrative Grading Symbols

Administrative Grading Symbols

Administrative Grading Symbols	Definitions	Grade (Quality) Points Earned
RP	Report in Progress	0.0
I	Incomplete (Authorized)	0.0
IC	Incomplete Charged	0.0
RD	Report Delayed	0.0
W	Withdrawal	0.0
WU	Withdrawal Unauthorized	0.0
AU	Audit	0.0

Report in Progress (RP)

The symbol "RP," Report in Progress, is used in connection with courses that extend beyond an academic term. It indicates that work is in progress, but that a final grade cannot be assigned until additional work is completed. The work is to be completed within one year, except in the case of graduate theses or dissertation. A graduate thesis or dissertation must be completed and approved within five years of the student's initial enrollment in a thesis or dissertation course. If the work is not completed within the

established time limit (one year, and for graduate theses and dissertation, five years), the "RP" grade will be changed to an "F" or "NC," depending on the grading pattern of the course.

Incomplete (I)

The symbol "I", Incomplete (Authorized), indicates that (1) a discrete portion of the required coursework has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons, (2) attending a future offering of the class is not required to complete the work, and (3) the instructor believes it likely that the student will earn credit for the course upon completion of that work. Students who are currently failing a course are not eligible for an Incomplete. It is the student's responsibility to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements that must be satisfied to remove the Incomplete. A final grade is assigned when the work agreed upon has been completed and evaluated. The instructor will specify the work needed for completion which can be viewed in *MyCSUEB*.

An "I" must normally be made up within one calendar year immediately following the end of the term during which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Students may not repeat a course in which they currently have an incomplete grade.

When the required work has been completed and evaluated, the instructor will submit a change of grade form and the academic grade will be recorded. If students do not complete the work within the allowed time limit, the grade will be recorded as an "IC" (Incomplete Charged).

Incomplete Charged (IC)

The symbol "IC," Incomplete Charged, is used if the student received an authorized incomplete ("I"), but did not complete the required coursework within the allowed time limit, and the original grading pattern of the course was "A-F." The "IC" replaces the "I" and is counted as a failing grade for computing grade point average. Students may be able to receive up to two one-quarter extensions from the instructor. These extensions are for cause and must be approved by both the instructor and department chair. (Examples of cause include military service, serious health or personal problems, or instructor's leave of absence.) If students want credit for a course after an "I" has been converted to an "IC," they must re-register and pass the course.

Students can graduate with an "I" grade on their record if the course is not necessary for graduation requirements. No grade may be changed once the degree has been awarded.

Report Delayed (RD)

Students will be assigned this administrative grade for a course if the instructor notifies the Office of the Registrar that grade reports have been delayed by circumstances beyond his or her control. An example is the illness of the instructor at the end of the quarter. The instructor will replace the "RD" grade with an academic grade as soon as possible. If the instructor fails to replace it with an academic grade by the end of the following term, the grade "RD" will be converted to a "WU" or an "NC" depending on your grading pattern.

Withdrawal (W)

This administrative grade indicates that the student was permitted to withdraw from a course after the end of the Add/Drop period with the approval of the instructor and department chair. The requests and approvals shall state the reasons for withdrawal. This grade does not reflect the quality of performance and is not used in calculating grade point average. The instructor is urged to provide the student with a mechanism to evaluate their progress in the course during the first two weeks so that they can make an informed decision regarding their continued enrollment before the beginning of the withdrawal period.

Undergraduate students may withdraw from no more than 28 quarter units in the undergraduate career. Only withdrawals recorded in terms beginning with Fall 2009 are counted. Open University units are counted toward the maximum units. Students who have reached the limit on withdrawals may file an academic petition to allow additional withdrawals from courses. No limitations are placed on withdrawals by post-baccalaureate students taking classes in a post-baccalaureate career.

Withdrawal after the seventh week is normally not permitted. If students have attended the class, done the work, and have a valid reason for failing to complete the course, their instructor should normally assign the "I," Incomplete (Authorized) grade.

Withdrawal from a class after the seventh week requires a petition including verification of the reason by an impartial third party, written on letterhead, and signature of the instructor, department chair, and college dean. The requirements for withdrawal from the university from the third through the seventh weeks must also be fulfilled. Petitions are then reviewed by the Registration and Records Appeals Committee, approval is not automatic.

Students may not withdraw if they have taken the final examination or completed all course requirements.

If students do not attend class and do not have an approved withdrawal petition, they will receive a failing grade of "WU" or "NC," depending on the grading pattern selected for the course.

Details on the withdrawal process are documented in the Registration & Enrollment chapter.

Withdrawal Unauthorized (WU)

This administrative grade indicates that students enrolled in a course, but did not withdraw from the course and also failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities, or both, were insufficient to make normal evaluation of academic performance possible. The "WU" is calculated in the grade point average as an "F" grade.

Audit (AU)

Students may take courses for instruction only (Audit), and will attend class but will not receive credit. Audit students will pay the same fees and enjoy the same instructional privileges as students enrolled for credit. Audit students may participate in class, take examinations or complete other assignments, but are not required to do so.

Students may not petition to change their enrollment status from, or to, "Audit" after the Add/Drop period has ended.

Details on the audit process are covered in the Registration & Enrollment chapter.

Undergraduate Probation & Disqualification Policy

The following policies govern undergraduate academic probation and disqualification:

Academic Probation

According to Title 5 of the California Code of Regulations, you must achieve at least a 2.00 grade point average (GPA) in all university work, all work at Cal State East Bay, and all work in your major to receive a baccalaureate degree. Academic probation warns you that your academic performance is below the state minimum required for graduation, and that you must improve your GPA before a degree can be granted.

There are various services to assist you in improving your academic standing. If you are an EXCEL or Educational Opportunity Program (EOP) student, you must contact your counselor. All other undergraduate students should contact the Academic Advising and Career Education office at 510-885-3621 and make an appointment to meet with an academic advisor.

When both your cumulative higher education GPA and your Cal State East Bay GPA reach 2.00, you are removed from academic probation.

Administrative Probation

As authorized by Title 5 of the California Code of Regulations, you may be placed on administrative academic probation for:

- withdrawal or administrative disenrollment from all or a substantial portion of a program of studies in two successive quarters or in any three quarters. (Note: A student whose withdrawal is directly associated with a chronic or recurring medical condition or its treatment is not subject to administrative academic probation for such withdrawal);
- repeated failure to progress toward the stated degree objective or other program objective, including that resulting from the assignment of 23 units of "NC," when such failure appears to be due to circumstances within your control;
- failure to comply, after due notice, with an academic requirement or regulation, as defined by campus policy, which is routine for all students or a defined group of students, such as failure to complete the writing skills test, failure to complete a required practicum, failure to comply with professional standards appropriate to the field of study, or failure to complete a specified number of units as a condition for receiving student financial aid or making satisfactory progress in the academic program;

- earning only grades of "F," "NC," and/or "WU" for two consecutive quarters or any three quarters.

Academic Disqualification

As authorized by Title 5 of the California Code of Regulations, as an undergraduate student on academic probation you will be subject to academic disqualification when:

- as a freshman (fewer than 45 quarter hours of college work completed) you fall below a grade point average of 1.50 in all units attempted or in all units attempted at Cal State East Bay;
- as a sophomore (45 through 89 quarter hours of college work completed) you fall below a grade point average of 1.70 in all units attempted or in all units attempted at Cal State East Bay;
- as a junior (90 through 134 quarter hours of college work completed) you fall below a grade point average of 1.85 in all units attempted or in all units attempted at Cal State East Bay;
- as a senior (135 or more quarter hours of college work completed) you fall below a grade point average of 1.95 in all units attempted or in all units attempted at Cal State East Bay.

Administrative Disqualification

As authorized by Title 5 of the California Code of Regulations, if you have been placed on administrative academic probation, you may be disqualified from further attendance if:

- the conditions for removal of administrative academic probation are not met within the period specified;
- you become subject to academic probation while on administrative academic probation;
- you become subject to administrative academic probation for the same or similar reason for which you have been placed on administrative academic probation previously, although not currently in such status.

If you are not on probation, you may be subject to administrative academic disqualification if:

- at the end of any term, you have a cumulative grade point average below 1.0;
- your cumulative grade point average is so low that in view of your overall educational record, it seems unlikely that the deficiency will be removed within a reasonable period.

Reinstatement as an Undergraduate after Disqualification

To be readmitted or reinstated as an undergraduate student following *Academic Disqualification*, you must have earned good grades at another accredited institution, or through Open University, have improved your CSUEB and cumulative GPA to 2.00 or better, and have completed any required remediation.

Typically, you will not be considered for readmission for one year, certainly not for at least one quarter. If you are not admitted within three quarters, you must also reapply for admission.

The Admissions Review Committee will decide on petitions for reinstatement, on a case-by-case basis, if you do not meet the above-mentioned criteria but feel you have compelling and/or extenuating circumstances which prevent you from achieving the reinstatement requirements. The committee may

reinstate you on probation if, in their judgment, you are likely to remove any grade point average deficiencies within the subsequent two terms.

Note: If you are readmitted or reinstated, you must maintain a minimum term GPA of 2.5. If you are academically disqualified for a second time, you will not be readmitted or reinstated.

Standards of Research with Human Subjects

The University has approved policies and procedures for the protection of human subjects in research, development, and related activities carried out by faculty, staff and students. An Institutional Review Board has been established to review research protocols in order to determine whether human subjects would be at risk and to protect their rights and welfare. Protocols must be approved before research commences. Further information and copies of the policy document may be obtained from the Office of Research and Sponsored Programs, LI 2300, 885-4212 or online at: <http://www.csueastbay.edu/orsp/>

Graduation

Time to Think About Graduation!

Students must apply for graduation one term in advance of the term in which they intend to graduate and must apply prior to the end of the Add/Drop period. Deadlines to file are listed under *Important Dates* on the University website under "Current Students". Continuing students can log into *MyCSUEB* on the university website and click on "Apply for Graduation." The student will be prompted to select the term for which they wish to graduate. There will only be one term to select since graduation applications are only accepted for one quarter at a time. A confirmation page will then appear. The student should print this page and give a copy to their department. Discontinued students can file for graduation using the "Application for Graduation for Closed Matriculation" form on the University website under "Current Students".

Note: Students are advised to review completion of degree requirements with their department before filing for graduation. Final graduation evaluation or "check-out" is typically completed within two months following the posting of grades from the student's final quarter of attendance.

Filing for Graduation

SSMP and Credential Program Students

Important Facts to Remember

Catalog Rights for Graduation

Graduation Requirement in Writing Proficiency

Diplomas

Priority Registration

Filing for Graduation

Students are advised to review completion of degree requirements with their department before filing for graduation.

The graduation filing fee will be charged to the student's account after they file for graduation. The fee can be paid by one of the following ways:

- online at *MyCSUEB*
- in person at the Cashiers' Office in the Student Enrollment Information Center (Student Services and Administration Building, 1st Floor) on the Hayward Hills Campus

- in person in the Academic Services Office on the Concord Campus

The Graduation Application Fee covers the cost of the graduation check of coursework completed the diploma, and participation in the annual commencement ceremony (*but not including cap and gown rental/purchase, handled separately by the Bookstore*). The fee is non-refundable, but if a student does not graduate when they originally intended, the fee will be transferred to the subsequent quarter automatically.

When a student files for graduation, they may obtain a new registration priority. To register for classes as a graduating graduate student, students must be a "classified Graduate" who is recommended for Advancement to Candidacy by their advisor and who has made substantial progress towards their degree by the time the registration appointments are assigned.

IMPORTANT Facts to Remember

Students are advised to review completion of general education requirements and to consult with their major and minor departments before filing for graduation.

Remember:

Students are responsible for contacting their academic major and minor departments and informing them of their intent to graduate. Students must allow enough notice so that their department will have sufficient time to generate a major or minor checklist sheet indicating whether the student has satisfied all academic requirements of the major or minor. The major and minor check sheets are due to the Office of the Registrar by the end of the fifth week of the quarter preceding the student's final quarter.

To register as a graduating senior, students must have earned 150 units or more and have filed for graduation by the time registration appointments are assigned. A student's graduation quarter can be updated by request a maximum of three consecutive terms, after which time they must re-file and pay again. This should be done well in advance of the opening of registration for a given quarter, and no later than the end of the Add/Drop period of the quarter originally intended to be the student's final quarter. Changes in the information on the diploma (change of name, address to be sent, deletion of an incomplete minor) must be submitted no later than the end of the Add/Drop period of the intended quarter of graduation.

Major & Minor Checks

After filing for graduation, students must contact their major department to complete an official "Major Check" form showing all requirements completed for the major and those remaining to be completed for the major. (If students are an Interdisciplinary Studies Major, a Major Check is not needed.) The department must submit the form to the Office of the Registrar no later than the fifth week of the quarter preceding the student's final quarter if they are to graduate on time.

Students are strongly encouraged to check with their academic department by the end of the fifth week of classes of their next to last quarter to be certain a major check has been filed.

If students are completing a minor and want it recorded, they must request that a "Minor Check" form be submitted by the department offering the minor to the Office of the Registrar no later than the end of the fifth week of classes of the student's second to last term.

Waivers

If students file any waiver or substitution petitions for major, G.E., or other graduation requirements, they must be certain the substitution petition reaches the Office of the Registrar at least four weeks before the end of their final quarter.

Once students have completed all degree requirements and the Office of the Registrar can verify their completion, their degree will be posted. The final graduation evaluation process typically takes up to three months following the posting of grades from the student's last quarter of attendance. The student's diploma will be ordered and mailed to their permanent address of record with the university 4-6 weeks after the degree has been awarded.

Student Records

In order to protect the integrity of its transcripts, the university will not make any changes to student records unless there is documented evidence of university error. Once a degree is posted to a student's permanent record, the diploma and transcript cannot be altered by adding additional options and/or minors, or by grade changes, withdrawals, and/or grade forgiveness. Students who believe that they have received a grade in error should promptly ask the instructor to verify and, if appropriate, correct the grade. If an error was made, the instructor of record must indicate specifically the nature of that error on the *Change of Grade* form and submit the completed form to the *Student Records Office*. Students who feel they received a grade due to unfairness would also have one quarter to pursue their allegation of unfairness through the University's fairness complaint process. Students must notify the *Office of the Registrar* of any errors in their grades no later than the quarter subsequent to the quarter in which their degree is awarded or upon completion of the fairness process. The Registrar's Office may also seek clarification of the error from the Department Chair.

If the instructor is absent from campus during the quarter subsequent to the quarter in which the student's degree is awarded, the student shall promptly consult with the department chair about the grade in question. If the department chair is unable to contact the instructor, the chair will notify the Dean of the College and the University Registrar in writing that an extension of the grade correction deadline, up to one year after the degree has been awarded, has been requested.

Graduation Requirement in Writing Proficiency

All students must demonstrate competency in writing skills as a requirement for graduation. Information on currently available ways to meet this graduation requirement may be obtained from the Testing Office website or call 510.885.3661

Priority Registration

When a student files for graduation, they may obtain a new registration priority. To register for classes as a graduating graduate student, students must be a "**Classified Graduate**" who is recommended for *Advancement to Candidacy* by their advisor and who has made substantial progress towards their degree by the time the registration appointments are assigned.

SSMP and Credential Program Students Filing for Graduation

If a student is completing an undergraduate *Single Subject Matter Preparation* Program for entry into a teaching credential program, or they are completing a graduate *Single or Multiple Subject Credential* Program, they should *not* file for graduation, but be certain that the appropriate check sheet is submitted by the department or program committee offering the program to the CSSC - (SAS,OTHER) Credentialing Services in the College of Education and Allied Studies.

Catalog Rights for Graduation

Your catalog rights for your major, minor or degree (undergraduate or graduate) are governed by the catalog in effect at the time you declare your major, minor or degree. Undergraduates will not lose catalog rights for G.E. and other graduation requirements by declaring or changing your major, if you maintain attendance. Your catalog rights for your master's degree are governed by the catalog in effect at the time you were admitted to your program.

As long as you maintain attendance by enrolling in at least two quarters each calendar year, your degree requirements will remain those of the catalog in effect at the time you declare your major, minor or degree. However, you may elect to meet the requirements of the catalog in effect at the time you graduate. These principles are called your "catalog rights." If you do break attendance by not enrolling in two quarters in a calendar year, your graduation requirements will be governed by the catalog in effect at the time you reenter. If you are absent due to an approved Educational Leave or to attend another accredited institution of higher education, you will not lose your catalog rights as long as you are not away for over two years.

If you are a transfer student who attended another CSU campus and/or California community college, you have Cal State East Bay catalog rights from the time you began at the other institution if you have maintained attendance as noted above.

The principle of catalog rights refers to degree requirements, not policies, fees, services, and other matters which, when they change, apply to all students. For that reason, you should check the latest online catalog.

Please Note: Requirements of certain programs (e.g., teacher credential programs) are governed by outside agencies. The requirements of these programs are subject to change based on changes dictated by these outside agencies.

Diplomas

After a student has completed all degree requirements and the graduation evaluator has verified their completion, their degree will be conferred and their diploma will be ordered. The final graduation evaluation process typically takes up to three months following the posting of grades from the student's last quarter of graduation candidacy. The diploma will be mailed to the student's address of record with the university 4-6 weeks after the degree has been awarded.

A diploma is an official document containing the embossed seal of Cal State East Bay, the student's name, the degree conferred and date, major(s) completed in the degree conferred, any options or minors completed, and the signatures of state and university officials. It is not reproducible or available in multiple copies. Students can obtain multiple copies of their record by ordering transcripts which also show degrees, majors and options, as well as other information. If a student needs proof of completion of their degree before receiving their diploma, they may request a verification of graduation or a transcript from the Office of the Registrar. Should a student change their name, they may request that a new diploma be issued with their new name if

- (1) they return the originally issued diploma to the Office of the Registrar
- (2) they provide legal documents confirming their legal name change, and
- (3) the student pays the fee for a new diploma.

After the degree is posted to a student's permanent record, a student's diploma and transcript cannot be altered by adding additional options, or by grade changes, and/or withdrawals. The University protects the integrity of its transcripts and will not rewrite history unless a University error has occurred.

Graduate Admission & Fees

Admission Requirements

Graduate and post-baccalaureate applicants may apply for a degree objective, a credential or certificate objective, or where approved, may have no program objective. Depending on the objective, the CSU will consider an application for admission as follows:

- General Admission
- Admission to a Graduate Program

Also see *General Requirements* in this chapter.

Note: These and other CSU admissions requirements are subject to change as policies are revised and laws are amended. The CSU website, www.calstate.edu is a good source of the most up-to-date information.

Flash Note: CSUMentor will be changing to calstate.edu/apply beginning June 1, 2017.

General Graduate Admission Requirements

Application Filing Periods & Deadlines

Admission to a Graduate Program

Classified Status

International Admission Requirements

International Admissions Office

Application Materials Deadline for International (Foreign) Students

Graduate Declaration of Educational Objective

Academic Records

English Proficiency Requirement for International Graduate Applicants

Waiver for English Proficiency Requirement

Financial Certification

Enrollment Requirements for F-1/J-1 Visa Students

Graduate Transitory Admission Eligibility

Schedule of Graduate Registration Fees

Qualified Teacher Credential Registration Fees

Residency Determination

Non-Resident Tuition

General Admission Requirements

The minimum requirements for admission to graduate and post baccalaureate studies at a California State University campus are in accordance with university regulations as well as Title 5, Chapter 1, Subchapter 3 of the California Code of Regulations.

Specifically, a student shall at the time of enrollment:

- (1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate campus authorities;
- (2) be in good academic standing at the last college or university attended;
- (3) have earned a grade point average of at least 2.5 on the last degree completed by the candidate or have attained a grade point average of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) units attempted; and
- (4) satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.

Students who meet the minimum requirements for graduate and post-baccalaureate studies may be considered for admission in one of the four following categories:

- Graduate Classified - To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or
- Graduate Conditionally Classified - Applicants may be admitted to a graduate degree program in this category if, in the opinion of appropriate campus authority, deficiencies may be remedied by additional preparation; or
- Post-Baccalaureate Classified, e.g. admission to an education credential program - Persons wishing to enroll in a credential or certificate program, will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or
- Post-Baccalaureate Unclassified - To enroll in undergraduate courses as preparation for advanced degree programs or to enroll in graduate courses for professional or personal growth, applicants must be admitted as post-baccalaureate unclassified students. By meeting the general requirements, applicants are eligible for admission as post-baccalaureate unclassified students. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program. (Most CSU campuses do not offer admission to unclassified post-baccalaureate students).

(These and other CSU admission requirements are subject to change as policies are revised and laws are amended. The CSU website www.calstate.edu and the CSU admissions portal www.calstate.edu/apply are good sources of the most up-to-date information.)

Application Filing Periods & Deadlines

Graduate and Credential Students Application and Document Deadlines

Fall Quarter 2017- THE LAST DAY TO APPLY WILL BE WEDNESDAY, MAY 31, 2017. *Note: This section has been corrected from its original format. See the Errata chapter in this catalog for more information.*

Applications are accepted from most majors October 1, 2016 - May 31, 2017.

Programs with earlier application deadlines are indicated below.

- Biological Science, MA/MS - application closes April 15, 2017
- Computer Science, MS - application closes May 1, 2017
- Social Work, MSW - application closes January 17, 2017
- Speech Pathology and Audiology, MS - application closes February 1, 2017

Students who will be studying on an F1/J1 visa or any applicants with transcripts from outside of the U.S. should view www.csueastbay.edu/international for submission deadlines.

Some graduate and credential programs may require departmental applications and other supplemental application materials. Please check with the department for details. Learn more at www.csueastbay.edu/graduate-admission.

Official transcripts from ALL colleges and universities are due by July 15, 2017. Documents received after the priority deadlines are processed in receipt date order on a space-available basis.

Winter Quarter 2018

Applications are accepted from select majors June 1, 2017-October 1, 2017. Some departments may accept applications after the deadline on a case-by-case basis; check your department website for details.

Students who will be studying on an F1/J1 visa or any applicants with transcripts from outside of the U.S. should view www.csueastbay.edu/international for submission deadlines.

Some graduate and credential programs may require departmental applications and other supplemental application materials. Please check with the department for details. Learn more at www.csueastbay.edu/graduate-admission.

Official transcripts from ALL colleges and universities are due by October 15, 2017. Documents received after the priority deadlines are processed in receipt date order on a space-available basis.

Spring Quarter 2018

Applications are accepted from select majors August 1, 2017-February 1, 2018. Some departments may accept applications after the deadline on a case-by-case basis; check your department website for details.

Students who will be studying on an F1/J1 visa or any applicants with transcripts from outside of the U.S. should view www.csueastbay.edu/international for submission deadlines.

Some graduate and credential programs may require departmental applications and other supplemental application materials. Please check with the department for details. Learn more at www.csueastbay.edu/graduate-admission.

Official transcripts from ALL colleges and universities are due by February 15, 2018. Documents received after the priority deadlines are processed in receipt date order on a space-available basis.

Admission to a Graduate Program

Most graduate degree programs at Cal State East Bay also require that an applicant complete a separate departmental application. These programs may require that the student meet additional admission requirements above and beyond those required for admission to the university. Contact the department offering the program to obtain a departmental application form and information on departmental application deadlines and admission requirements.

If you wish to pursue a graduate Interdisciplinary Studies Major, contact the Academic Programs and Graduate Studies Student Services Office (Student Services and Administration Building, 1st Floor, 510-885-3286) as soon as possible, preferably before you submit your admission application. You cannot be admitted as an Interdisciplinary Studies Major until your program of study has been approved.

Regularly matriculated students pursuing a state-supported master's degree at CSUEB are not able to be simultaneously enrolled in a CSUEB University Extension degree program. Students interested in pursuing multiple master's degrees should consult the academic department or e-mail: gradadmission@csueastbay.edu if unsure of the programs classification. See the *Dual Masters* section in the Orientation & Advising chapter.

For information on changing major, degree, or credential objectives after you have been admitted, see the *Change of Educational Objective* section in the Orientation & Advising chapter.

"Classified" Status

What does it mean to be admitted as a "classified", "unclassified" or "conditionally classified" student?

Graduate Classified

To be admitted as "classified," a graduate student must have fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus for the degree objective inwhich the student has declared upon admission.

Graduate Conditionally Classified

Applicants may be admitted to a graduate degree program as "conditionally" classified if, in the opinion of appropriate campus authority, deficiencies (i.e. from the list above) may be remedied by additional preparation. This is meant to be a temporary status until the conditionally classified student has fulfilled all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus for the degree objective.

Post-Baccalaureate Classified, e.g. admission to an education credential program

Persons wishing to enroll in a credential or certificate program, will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus. By meeting the specific program requirements, applicants are eligible for admission as post-baccalaureate classified students

Post-Baccalaureate Unclassified

To enroll in undergraduate courses as preparation for advanced degree programs or to enroll in graduate courses for professional or personal growth, applicants must be admitted as post-baccalaureate unclassified students. By meeting the general requirements, applicants are eligible for admission as post-baccalaureate unclassified students. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program.

Note: Most CSU campuses, including Cal State East Bay, do not offer admission to unclassified post-baccalaureate students.

International (Foreign) Student Admission Requirements

General Requirements for All Applicants

The CSU must assess the academic preparation of foreign students. For this purpose, "foreign students" include those who hold U.S. temporary visas as students, exchange visitors, or in other nonimmigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of "foreign students." Verification of English proficiency (see the section on the English Language Requirement for undergraduate applicants), financial resources, and academic performance are each important considerations for admission. Academic records from foreign institutions must be on file before the start of the quarter of admission and, if not in English, must be accompanied by certified English translations. **See *Application Materials Deadline for International (Foreign) Students* in this chapter.**

Graduate & Post-Baccalaureate

Graduate applicants must hold a degree equivalent to a four-year bachelor's degree obtained from a recognized university. You must also have the equivalent of a 2.50 grade point average, or higher, in your last two years of college-level courses.

In addition, each applicant must have a declared educational objective when the application is filed. International students on F-1 student visas may be admitted as "Conditionally Classified Graduate," "Classified Graduate," or "Classified Post-Baccalaureate" students. *They may not be admitted as "Unclassified Post-Baccalaureate" students.*

Note: Some graduate programs may require admission tests such as the GMAT or GRE and a supplemental application. Please consult the individual graduate department for any additional application or admission requirements.

International Admissions Office

All matters pertaining to the admission of international students are handled by the International Admissions Office. Students from other countries should consult with the International Admissions Office regarding visas, eligibility for employment, and any special academic requirements.

The CSU must assess the academic preparation of foreign students. For this purpose, "foreign students" include those who hold U.S. temporary visas as students, exchange visitors, or in other non-immigrant classifications. Cal State East Bay uses separate requirements and application filing dates in the admission of "foreign students". Verification of English proficiency (see below), financial resources, and academic performance are each important considerations for admission.

Prospective Graduate Students

Graduate applicants must hold a degree equivalent to a four-year bachelor's degree obtained from a recognized university. You must also have the equivalent of a 2.50 grade point average, or higher, in your last two years of college-level courses.

Application Materials Deadline for International (Foreign) Students

The university has established deadlines to ensure that all application materials will be processed in time to allow international students to make the necessary passport, visa, travel, and other arrangements to reach the campus before the start of the quarter of admission. Current deadlines applicable to international student admission can be found on the university website or by contacting the International Admissions Office: iao@csueastbay.edu

Graduate Declaration of Educational Objective

Each applicant must have a declared educational objective when the application is filed. International students on F-1 student visas may be admitted as "Conditionally Classified Graduate," "Classified

Graduate," or "Classified Post-Baccalaureate" students. They may not be admitted as "Unclassified Post-Baccalaureate" students.

Note: Some graduate programs may require admission tests such as the GMAT or GRE and a supplemental application. Please consult the individual graduate department for any additional application or admission requirements.

Academic Records

Certificates, diplomas, mark sheets, transcripts, and test scores must be sent directly from the issuing institution to the International Admissions Office to be considered official. The International Admissions Office reserves the right to determine what constitutes an official document. Certified English translations must accompany all non-English original documents. Documents submitted are the property of Cal State East Bay and will not be returned.

English Language Requirement

All graduate and post-baccalaureate applicants, regardless of citizenship, whose native language is not English and whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who do not possess a bachelor's degree from a postsecondary institution where English is the principal language of instruction must receive a minimum score on the Test of English as a Foreign Language (TOEFL). Some programs require a higher score. Several CSU campuses may use alternative methods for assessing fluency in English including Pearson Test of English Academic (PTE Academic), the International English Language Testing System (IELTS), and the International Test of English Proficiency (ITEP).

Cal State East Bay Requirements:

- TOEFL (Test of English as a Foreign Language) Graduate:
 - 550 (paper-based);
 - 213 (computer-based);
 - 79 (Internet-based)
- IELTS (International English Language Testing System) Graduate: 6.5

Note: Some graduate programs may require higher scores on these exams. Please check the programs section of this catalog for program-specific requirements. All test scores must be sent directly from the testing institution.

Waiver for English Proficiency Requirement

The English proficiency requirement for **post-baccalaureate and graduate** applicants may be waived by presenting the following:

- an official transcript showing graduation with a bachelor's degree from a U.S. college or university, or
- an official transcript from an international college or university indicating English is the principal language of instruction, or
- an official letter from the college or university certifying that English was the language of instruction.

Financial Certification

International students who wish to apply for a student visa must demonstrate financial support before a letter of admission or an "I-20" or "DS-2019" form will be issued. The following forms must be submitted: I-20 Letter of Consent, Declaration of Finances, and Health Insurance Compliance. These forms can be downloaded from the "Apply Online" option on the university website.

Enrollment Requirements for F-1/J-1 Visa Students

If you are a graduate on a student visa, you are required by the U.S. Citizenship and Immigration Services to take a minimum 8-units per semester that will count towards your degree as a "graduate" student, a "classified post-baccalaureate" student, or an "unclassified post-baccalaureate" student with an approved course of study. Enrollment in courses through Open University (University Extension) may not count for visa certification purposes. For further definition information see the *Glossary of Terms & Definitions* page.

International students should contact the Center for International Education (cie@csueastbay.edu) for information on matters affecting visa status, eligibility for employment, and any special academic requirements for international students.

Graduate Transitory Admission Eligibility

Graduate students are eligible for Intrasystem Concurrent Enrollment, Intrasystem Visitor Enrollment, and Cross-Registration with the University of California, Berkeley, and selected other East Bay colleges.

Intrasystem Concurrent Enrollment

If you are enrolled at any campus of the California State University, you may apply to attend another campus while concurrently enrolled at your home campus.

Eligibility Requirements:

- You have completed at least one term at the home campus as a matriculated student, or will be enrolled concurrently in such status,
- You are, or have been, enrolled in an authorized graduate program at your home campus, and

- You are in good standing at the last college attended.

Intrasystem Visitor Enrollment

If you are a student of any campus of The California State University, you may apply for admission as a visiting student at another campus for a period of one term.

Eligibility Requirements:

- You have completed at least one term at the home campus as a matriculated student,
- You are, or have been, enrolled in an authorized graduate program at the home campus, and
- You are in good standing at the last college attended.

For additional admissions information see either the: *General Admissions Information* or *Graduate Admissions Information* sections in this chapter.

Schedule of Graduate Tuition & Fees

The California State University is one of the most economical public universities in the nation and Cal State East Bay's tuition & fees are among the lowest in the California State University system. Resident students currently pay only 38% of the total cost of their education. If fee revisions occur, they will be published in the MyCSUEB.

The CSU makes every effort to keep student costs to a minimum. Tuition and fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU must reserve the right, even after initial payments are made, to increase or modify any listed tuition or fees. All listed fees, other than mandatory systemwide tuition, are subject to change without notice, until the date when instruction for a particular semester or quarter has begun. All CSU-listed tuition and fees should be regarded as *estimates* that are subject to change upon approval by the Board of Trustees, the Chancellor, or the Presidents, as appropriate. Changes in mandatory systemwide tuition will be made in accordance with the requirements of the Working Families Student Fee Transparency and Accountability Act (Sections 66028 - 66028.6 of the Education Code).

The following reflects applicable systemwide tuition for quarter campuses. *These rates are subject to change.*

Schedule of Graduate and Post-Baccalaureate Tuition & Fees

Any student who holds a bachelor's degree, which includes students pursuing a second bachelor's degree, and all categories of graduate and post-baccalaureate students (except qualified students pursuing a teaching credential, see the next section) pay the following fees when registering at Cal State East Bay. (Legal residents of California are not charged tuition.)

	0.1 to 6.0	6.1 or more
Tuition Fee*	\$1,388	\$2,392
Student Body Fee	43	43
Facilities Fee	2	2
University Union Fee	55	55
University Union Recreational Fee	65	65
Instructionally Related Activities Fee	8	8
Health Services Fee	75	75
Athletics Fee	35	35
Academic Excellence Fee	80	80
Photo I.D. Photo I.D. (quarterly fee)	1	1
Total	\$1,752	\$2,756

1.Fee adjustments subject to the policies established in Executive Order 661.

2.Disclaimer - Cost of Collection: Unpaid Tuition and Fees. You are subject to normal collection actions for unpaid debts including: assessment of late registration and past due fees, withholding of University services, withholding of credit for and disenrollment from some or all classes, referral of the debt to a collection agency and/or credit reporting agency, intercept of amounts due you from the State of California and/or legal action. You are obligated to pay all costs of collection, including attorney fees, collection agency fees and court costs (Please see Title 5, California Code of Regulations, Sections 42380 and 42381).

***Note: The Tuition Fee for graduate and post-baccalaureate students for the academic year (three quarters) is \$5,256 for 0.1 to 6.0 units a quarter and \$8,268 for 6.1 or more units a quarter.**

Graduate Business Professional Fee

The Graduate Business Professional Fee of \$180 *is paid on a per unit basis* in addition to basic tuition and campus fees for the following graduate business programs:

- Master of Business Administration (MBA)
- Master of Science (M.S.) programs in Accountancy
- Master of Science (M.S.) programs in Business Administration
- Master of Science (M.S.) programs in Health Care Management
- Master of Science (M.S.) programs in Business and Technology
- Master of Science (M.S.) programs in Information Systems
- Master of Science (M.S.) programs in Taxation

Schedule of Education Doctorate Tuition & Fees

Students pursuing the Education Doctorate degree pay the following fees when registering at Cal State East Bay. (Legal residents of California are not charged tuition.)

Education Doctorate Tuition & Fees, Effective Fall 2017 ^{1,2}**

	0.1 to 22.0 Units
Tuition Fee*	\$3,946
Student Body Fee	43
Facilities Fee	2
University Union Fee	55
University Union Recreational Fee	65
Instructionally Related Activities Fee	8
Health Services Fee	75
Athletics Fee	35
Academic Excellence Fee	80

Total**\$4,310**

¹Fee adjustments subject to the policies established in Executive Order 661.

²Disclaimer - Cost of Collection: Unpaid Tuition and Fees. You are subject to normal collection actions for unpaid debts including: assessment of late registration and past due fees, withholding of University services, withholding of credit for and disenrollment from some or all classes, referral of the debt to a collection agency and/or credit reporting agency, intercept of amounts due you from the State of California and/or legal action. You are obligated to pay all costs of collection, including attorney fees, collection agency fees and court costs (Please see Title 5, California Code of Regulations, Sections 42380 and 42381).

***Note: The Tuition Fee for Education Doctorate students for Fall 2017 through Summer 2018 is \$11,838 regardless of units. Applicable term fees apply for campuses with special terms, as determined by the campus. Total College Year fees cannot exceed the Academic Year plus Summer Term fees.**

****Applicable term tuition apply for campuses with special terms, as determined by the campus. Total College Year tuition cannot exceed the Academic Year plus Summer Term tuition. The Summer Term tuition for the Education Doctorate at quarter campuses is equal to the Per Semester tuition of \$5,919. Total fees for the Education Doctorate over the College Year equals the Per Academic Year tuition plus the Per Semester tuition for the summer term at all CSU campuses.**

Qualified Teacher Credential Tuition & Fees

Students seeking an initial Multiple Subject, Single Subject, or Special Education teaching credential who have been admitted to a credential program with "classified" or "conditionally classified" status pay the following tuition & fees. This schedule will apply whether or not the student is simultaneously enrolled in a master's degree program.

Qualified Teacher Credential Tuition & Fees, Effective Fall 2017 ^{1,2}

	0.1 to 6.0 Units	6.1 to more Units
Tuition Fee*	\$1,288	\$2,220
Student Body Fee	43	43
Facilities Fee	2	2
University Union Fee	55	55

University Union Recreational Fee	65	65
Instructionally Related Activities Fee	8	8
Health Services Fee	75	75
Athletics Fee	35	35
Academic Excellence Fee	80	80
Photo I.D. Photo I.D. (quarterly fee)	1	1
Total	\$1,652 (QTR)*	\$2,584 (QTR)*

1.Fee adjustments subject to the policies established in Executive Order 661.

2.Disclaimer - Cost of Collection: Unpaid Tuition and Fees. You are subject to normal collection actions for unpaid debts including: assessment of late registration and past due fees, withholding of University services, withholding of credit for and disenrollment from some or all classes, referral of the debt to a collection agency and/or credit reporting agency, intercept of amounts due you from the State of California and/or legal action. You are obligated to pay all costs of collection, including attorney fees, collection agency fees and court costs (Please see Title 5, California Code of Regulations, Sections 42380 and 42381).

**Note: The Tuition Fee for qualified teacher credential students for the academic year (three quarters) is \$4,956 for 0.1 to 6.0 units a quarter and \$7,752 for 6.1 or more units a quarter.*

Residency Determination

The Office of Admission determines residence status of all new and returning students for nonresident tuition purposes.

University requirements for establishing residency for tuition purposes are independent from those of other types of residency, such as for tax purposes, or other state or institutional residency. These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student should pay University fees on an in-state or out-of-state basis. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residency Requirements. These laws governing residency for tuition purposes at the California State University are California Education Code sections 68000-68085, 68120-

68133, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900- 41916. Residency material can be viewed on the internet by accessing the website at: www.calstate.edu/sas/residency

Each campus' Admissions Office is responsible for determining the residency status of all new and returning students based on the Application for Admission, Residency Questionnaire, Reclassification Request Form, and, as necessary, other evidence furnished by the student. A student who fails to submit adequate information to establish eligibility for resident classification will be classified as a nonresident.

Generally, establishing California residency for tuition purposes requires a combination of physical presence and intent to remain indefinitely. An adult who, at least 366 days prior to the residency determination date for the term in which enrollment is contemplated, can demonstrate both physical presence in the state combined with evidence of intent to remain in California indefinitely may establish California residency for tuition purposes. A minor normally derives residency from the parent(s) they reside with or most recently resided with.

Evidence demonstrating intent may vary from case to case but will include, and is not limited to, the absence of residential ties to any other state, California voter registration and voting in California elections, maintaining California vehicle registration and driver's license, maintaining active California bank accounts, filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting a residence where permanent belongings are kept, maintaining active memberships in California professional or social organizations, and maintaining a permanent military address and home of record in California.

Nonresident students seeking reclassification are required to complete a supplemental questionnaire that includes questions concerning their financial independence. Financial independence is required, in addition to physical presence and intent, to be eligible for reclassification. Financial independence is established if in the calendar year the reclassification application is made and in any of the three calendar years preceding the reclassification application the student:

- Has not and will not be claimed as an exemption for state and federal tax purposes by his/her parent;
- Has not and will not receive more than seven hundred and fifty dollars (\$750) per year in financial assistance from his/her parent; and
- Has not lived and will not live longer than six (6) weeks in the home of his/her parent.

A nonresident student who has been appointed as a graduate student teaching assistant, a graduate student research assistant, or a graduate student teaching associate on any CSU campus and is employed on a 0.49 or more time basis is exempt from the financial independence requirement.

Non-citizens establish residency in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States.

Exceptions to the general residency requirements are contained in California Education Code sections 68070-68085 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41906-41906.6, 41910 and include, but are not limited to, members of the military and their dependents, certain credentialed employees of school districts and most students who have attended three or more years of

high school (grades 9-12) in California and graduated from a California high school or attained the equivalent of graduation. Whether an exception applies to a particular student can only be determined after the submission of an application for admission and, as necessary, additional supporting documentation. Because neither campus nor Chancellor's Office staff may give advice on the application of these laws, applicants are strongly urged to review the material for themselves and consult with a legal advisor.

Note: Legal residents of California are not charged tuition, only fees.

Nonresident Tuition

Nonresident Tuition (in addition to basic tuition and systemwide fees charged all students), for quarter campuses, *per unit* is \$264.

Mandatory systemwide tuition is waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see *California Code for Fee Waivers & Exemptions* in this chapter).

Note: The total nonresident tuition paid per quarter will be determined by the number of units taken. Fees are subject to change without advance notice.

Graduate Degree Information

Graduate Education Defined

The master's degree is awarded for completion of a planned and integrated program of advanced study. It recognizes that a student has mastered a particular field sufficiently to pursue creative or applied projects in that field.

When you complete your graduate degree, you will have acquired a mastery of a particular area of knowledge; an ability to relate that knowledge to knowledge in other disciplines; an ability to deal systematically with the concepts, theory, and principles in new situations; an ability to formulate and deal with problems on an advanced level; methodological, technical, and communication skills essential for advanced study; an ability to undertake independent investigation and research; abilities characteristic of professional performance; and attitudes conducive to continuous intellectual and professional development.

Every master's degree program includes what is termed a capstone experience. This may include a thesis or its equivalent, a comprehensive examination, a specialized internship, a project, or case study report, a musical recital, gallery showing, or other comparable achievement. Your completion of the capstone experience demonstrates that you have successfully integrated the various elements of the graduate learning experience and have gained an in-depth knowledge of your discipline.

Graduate Student Defined

Master's Degree Requirements

Doctorate Information & Degree Requirements

Catalog Rights for Graduation

University Writing Skills Requirement

Advancement to Candidacy

Capstone Experience

Graduate Study Completion

Registration for Graduate Students

University Grading Policy

Graduate Probation & Disqualification Policy

Graduate Reinstatement after Disqualification

Declassification from a Graduate Degree Program

Resolution of Disputes

Conferring Honors at Graduation

Full & Part-time Status

Transferring Units as a Graduate Student

Change of Educational Objective

Dual Master's Degree

Academic Grading Patterns & Symbols

Second Master's Degree

Administrative Grading & Symbols

Time to Think About Graduation

Grade Point Average

Filing for Graduation

Final Examination Policy

Priority Registration

SSMP & Credential Program Students

Filing for Graduation

Diplomas

Graduate Student Defined

A student is considered a Graduate Student at Cal State East Bay if they have been admitted as:

A Master's Student

A student that has been admitted to a specific master's degree program as a "Conditionally Classified" or "Classified" student, or to an advanced credential program which can be earned in conjunction with a master's degree. A graduate student who wishes to receive a 45-unit master's degree in one year needs to enroll in 15 units for three quarters or 11-12 units for four quarters. (Eight units a quarter is the minimum for full-time status.)

A Post-Baccalaureate Student

Basic teacher credential programs constitute a separate area of post-baccalaureate work, and students in these programs are defined as "Classified Post-Baccalaureate" students.

A Doctoral Student

A student who wishes to receive a 90-unit doctoral degree in Education. These students should check the Educational Leadership for Social Justice, Ed.D. program chapter in this catalog, as well as consult the Doctoral Handbook (available from the Department office) for academic load information.

Master's Degree Requirements

A student wishing to earn a master's degree must complete the five requirements listed below:

- Fulfill the University Writing Skills Requirement;
- Be Advanced to Candidacy;
- Complete at least 45 quarter units applicable to your degree (45-52 in the Interdisciplinary Studies Major, 48 in Public Administration, 52-54 in Multimedia, 52-64 in the MBA, 72 in Counseling or Social Work).
 - All units must be earned within the five calendar years immediately preceding the receipt of your degree. (Outdated units may be accepted for one additional year with the approval of your department and the Senior, Academic Programs and Graduate Studies. If not completed in the sixth year, currency in the subject matter of the outdated courses must be demonstrated. Courses older than seven years are only applied to the degree in exceptional circumstances.)
 - A minimum of seventy (70) percent of the total units required by the degree program must be completed in residence while enrolled as an admitted graduate student at Cal State East Bay. (Note: The number of transferable units for each degree program will be rounded to the nearest whole number of units.) Units taken while at other schools, while an undergraduate with permission to take graduate courses, while pursuing an additional baccalaureate degree in "Unclassified Post--Baccalaureate" status, while enrolled in another graduate degree program, or while enrolled in Continuing Education courses-including Open University courses-do not count as resident units. Courses offered in special session are considered resident units. Please note that individual graduate programs may require more than 70 percent of the required degree units in residence, so check your particular program's section of this catalog for these requirements.
 - At least 1/2 of the units in your program must be 6000-level.
 - No lower division units can be counted.
 - No more than 9 units of university thesis or 5 units of departmental thesis or project work can be counted.
 - No more than 15 units may be in CR/NC courses (16 in Public Administration, 24 in Counseling, and 24 in Social Work).
- Complete a program of study approved by your department, which must include a thesis, project, or comprehensive examination; and
- Earn a 3.0 grade point average in all units counted towards your degree, with a minimum course grade of "C" in every course. Any course that counts toward your degree requirements with a grade of "C-" or below will have to be repeated. Please note that individual graduate programs may require a higher minimum grade, so students should check your program's section of this catalog for these requirements.

Doctorate Information

For information regarding the Doctor of Education, please see the Educational Leadership for Social Justice, Ed.D. chapter in this catalog. A copy of the Doctoral Student Handbook may be requested from

the Department of Educational Leadership, Arts & Education Building, Room 250, Tel: 510-885-4145; email: edld@csueastbay.edu.

Doctoral Degree Requirements

Cal State East Bay offers one doctoral program, the Ed.D. in Educational Leadership for Social Justice. Students accepted into this Ed.D. program should work very closely with their academic advisors to ensure that all policies and procedures are being followed. Policies and procedures for continuing student performance as well as program graduation requirements for this doctoral program are different from those required for students in master's programs. See the Educational Leadership for Social Justice, Ed.D. in this Catalog or contact the department office or website directly for specific requirements and program information for the Ed.D. degree.

Catalog Rights for Graduation

Your catalog rights for your major, minor or degree (undergraduate or graduate) are governed by the catalog in effect at the time you declare your major, minor or degree. Undergraduates will not lose catalog rights for G.E. and other graduation requirements by declaring or changing your major, if you maintain attendance. Your catalog rights for your master's degree are governed by the catalog in effect at the time you were admitted to your program.

As long as you maintain attendance by enrolling in at least two quarters each calendar year, your degree requirements will remain those of the catalog in effect at the time you declare your major, minor or degree. However, you may elect to meet the requirements of the catalog in effect at the time you graduate. These principles are called your "catalog rights." If you do break attendance by not enrolling in two quarters in a calendar year, your graduation requirements will be governed by the catalog in effect at the time you reenter. If you are absent due to an approved Educational Leave or to attend another accredited institution of higher education, you will not lose your catalog rights as long as you are not away for over two years.

If you are a transfer student who attended another CSU campus and/or California community college, you have Cal State East Bay catalog rights from the time you began at the other institution if you have maintained attendance as noted above.

The principle of catalog rights refers to degree requirements, not policies, fees, services, and other matters which, when they change, apply to all students. For that reason, you should check the latest online catalog.

Please Note: Requirements of certain programs (e.g., teacher credential programs) are governed by outside agencies. The requirements of these programs are subject to change based on changes dictated by these outside agencies.

University Writing Skills Requirement for Graduate Students

All CSU graduates must demonstrate competency in writing prior to receiving a degree by satisfying the University Writing Skills requirement (UWSR). *Graduate students* can meet this requirement in one of the following ways:

- If you have previously satisfied the Graduation Writing Assessment Requirement at CSUEB or at another CSU campus, CSUEB will accept official certification of completion if the entire requirement, as specified by that CSU campus, was satisfied and you were a matriculated student at the time.
- If you have graduated from any one of the CSU campuses, unless it is noted on your transcript that your USWR was not satisfied.
- If you received an essay score of 4.5 or higher on the GMAT or GRE or an essay score of 53 or higher on the CBEST.
- If you pass the Writing Skills Test (WST) at Cal State East Bay. See WST (Option One) for details.
- If you pass a first-tier writing course and possibly a second-tier writing course (if needed). See Course (Option Two) for details.

If you have not satisfied the UWSR before you begin your graduate work, you must either take the Writing Skills Test or enroll in a first-tier course by the end of your first quarter in "Conditionally Classified graduate" status. If you do not take the test or course when required, you may have a hold placed on your ability to register and may be dropped from your classes. If you think your writing is competent, you should take the Writing Skills Test. The UWSR must be satisfied before you can be admitted as a "Classified Graduate" student and, consequently, before you can be advanced to candidacy and receive a degree.

WST (Option One):

The Writing Skills Test consists of an analytic essay that requires you to demonstrate that you can think and write critically. You must pass the WST and satisfy the UWSR with a score of Clear Competence (8) to meet the requirement. If you fail the WST, you have only one opportunity to take it again. If you fail it again, your highest score of the two will determine your placement in the writing courses. If your score is Limited Competence (6), you will be required to take the course option (see below). If your score is Developing Competence (7), you need only take a second-tier writing course and pass with a C-(CR) or better to satisfy the UWSR.

Course (Option Two):

ENGL 3000 and ENGL 3001 are the first-tier writing courses, designed to help students meet the University Writing Skills Requirement. Students who have taken the Writing Skills Test (WST) and have received Limited Competence (6) must take this course and perhaps a second-tier course as well. If you choose to meet this requirement through class work, you do not need to take the WST; although, you may take it at any time, for a total of two attempts, even when enrolled in a writing skills course. Generally

speaking, ENGL 3000 is intended for native speakers of English, while ENGL 3001 is intended for non-native speakers. Based on end-of-course portfolio evaluation scores, at the end of the first-tier course you will be directed as to your next step, which will involve one of the following: You may be found to have met the UWSR requirement altogether, you may be directed to enroll in a second-tier course, or you may be directed to repeat the first-tier course.

Two second-tier courses are currently offered: ENGL 3003, and MKTG 3495. Business majors are required to take MKTG 3495 in the major but may not enroll until they have reached Developing Competence on the WST or passed a first-tier course. If you passed one of these courses prior to Fall 2000, it may not meet the UWSR. For more information on these courses, contact the individual department.

If you have taken the first-tier writing course three times consecutively, have not passed, and have a letter of good faith effort from your most recent first-tier instructor, you may apply to the Associate Vice President, Academic Programs and Graduate Studies, for a waiver of the UWSR. If a waiver is granted, your permanent record will note that you were allowed to graduate without having satisfied the UWSR. If you do not satisfy the requirement and do not have a waiver approved, you will not be allowed to graduate. Contact the Office of Academic Programs and Graduate Studies for information on this waiver (510.885.3718).

If you receive a grade of "D+" or "D" in a second-tier writing course (taken Fall Quarter, 2000 or later), you may appeal to the Associate Vice President, Academic Programs and Graduate Studies, for a waiver of the UWSR. If a waiver is granted, your permanent record will note that you were allowed to graduate without having satisfied the UWSR. If you do not satisfy the requirement and do not have a waiver approved, you will not be allowed to graduate. Contact the Office of Academic Programs and Graduate Studies for information on this waiver (510.885.3718).

If you have a verified disability and would like to request accommodations to assist you in satisfying this requirement, visit Accessibility Services in Library Complex 2400 or call 510-885-3868 (phone/TTY).

For more information on meeting the University Writing Skills Requirement, see the Testing Office website or call 510-885-3661.

Advancement to Candidacy

"Candidacy" is a status which recognizes completion of substantial progress towards your degree. A student becomes eligible for Advancement to Candidacy when they:

- have become a "Classified Graduate" student in good standing;
- have completed at least 12 quarter units of 6000-level coursework with a minimum 3.0 GPA;
- have designed a formal program of study approved by your graduate advisor;
- have fulfilled the University Writing Skills Requirement;
- have completed other department prerequisites for advancement; and

- are recommended for Advancement to Candidacy by their academic advisor (subject to approval by the department's graduate coordinator).

Capstone Experience

The capstone experience of the graduate program will be the successful completion of a thesis, project, or comprehensive examination. The quality of the student's work, including quality of expression, is the major consideration in judging the success of this degree component.

Thesis

A thesis is the written product of a systematic study of a significant issue. In the thesis, the student is expected to identify the issue, state the major assumptions, explain the significance of the project, detail sources for and methods of obtaining data, provide analysis of the data, and offer conclusions. The thesis should demonstrate original critical and independent thinking, appropriate organization and format, and thorough documentation. If the research involves human subjects, the protocols must be approved by the Institutional Review Board (see "Research with Human Subjects" in the Appendix).

Cal State East Bay offers two kinds of master's degree theses, University Thesis (numbered 6910) and Departmental Thesis (numbered 6909). Students required, or electing, to write a thesis must register for a minimum of one unit of either 6909 or 6910 in order to receive credit toward completion of this capstone experience. Students should check with the department for information on the number of units for which they must enroll.

Most criteria are the same for both the Departmental Thesis and the University Thesis.

- The candidate must be a graduate student (i.e., admitted to a master's degree program) to enroll in a thesis course; the academic department may add additional requirements.
- The student's thesis work will be supervised by a departmental committee which must include at least one Cal State East Bay faculty member who is a member of the major department.
- The student may not receive credit for more units of thesis work than allowed by the degree program.
- Each quarter the student will receive a grade of "RP" (Report in Progress) for units earned in 6909 or 6910 until they have completed their thesis; the student will then be given a final grade for the entire course. No "RP" units will be counted towards the degree or in calculating their GPA. If the thesis is not approved within five years of your initial enrollment in a thesis course, the "RP" grade(s) will be changed to "F" or "NC" (depending on the grading pattern of the course).
- Normally a degree candidate will be required to present an oral defense of their thesis.

There are also a few significant differences between the two kinds of theses:

A Master's degree candidate may not earn more than 9 units for University Thesis, while the maximum for Departmental Thesis is 5 units. Several departments have lower unit requirements, so the student should check the program description in this catalog.

The format of a University Thesis is established by the Associate Vice President, Academic Programs and Graduate Studies. Since these works are expected to serve as resources for future research, the format is formal. An electronic copy is placed in the Institutional Repository. A Departmental Thesis, on the other hand, is usually not as formal. The Departmental Thesis standards and format are determined by the department, and the thesis is retained by the department.

University Thesis:

For information on the steps to follow (the approval process, required format for the structural elements of the thesis, and deadlines) when writing a University Thesis, consult the University Thesis Writing Guide available online at: www.csueastbay.edu/thesiswritingguide. If a student has questions concerning the selection of a topic, and/or the procedure to establish a thesis committee and research protocols, they should contact their department advisor or graduate coordinator. If the student has additional questions concerning the formatting and binding of their University Thesis after having read the University Thesis Writing Guide, it is recommended they contact the University Thesis Editor at: thesis.editor@csueastbay.edu

Departmental Thesis:

For information about a Departmental Thesis (the department's thesis guidelines, including format, acceptable thesis topics, and procedures to establish a thesis committee) contact the department advisor or graduate coordinator.

Project

A project is a significant piece of non-written work in either a fine or applied art or a professional field. Projects should provide evidence of originality, independent thinking, and appropriate form and organization. Students are required to describe their project in a written abstract that addresses the project's significance, objectives, methodology, and conclusions. In some cases, the student may be required to present an oral defense.

Specific criteria for a Project (numbered 6899) are the same as those for a Departmental Thesis with a few exceptions.

- An "RP" grade in a project course will become an "F" (no "NC" option) after one year if your project is not completed.
- While the project need not be considered a research resource, it should be of a caliber to constitute a valid terminal activity in a master's degree program and will be permitted only when a thesis is not appropriate.

If a Master's degree student changes from a program requiring a thesis to one requiring a project (or vice versa), they may count a combined maximum of 9 units for 6909, 6910, and 6899 towards the degree.

Comprehensive Examination

A comprehensive examination is intended to assess the student's mastery of relevant subject matter, their ability to analyze and integrate the knowledge of their field, their skill in critical and independent

thinking, and their use of appropriate organization and accurate documentation. A record of the student's examination (questions and responses) will be retained by their department. Some departments grant unit credit for exam preparation while others do not.

Graduate Study Completion

If you have completed all the units required for your master's degree, but are still working on your thesis, project, or studying for a comprehensive exam, you can have continued access to university facilities by registering for GS 6990 Graduate Study Completion, through University Extension, Continuing and International Education. This is a 1-unit course with a fee of \$78 (fee subject to change). The other alternative is to register for 0.1 units through the regular registration process at a cost of approximately \$1164. Registering for GS 6990 will provide you with a valid Student ID card, the ability to check books out of the library, remote access to computerized databases in the library, use of computer labs on campus, the ability to continue to work on projects in science labs, eligibility to purchase a parking permit, and access to other benefits enjoyed by regularly registered students.

Note: GS 6990 cannot be used to satisfy any unit or course requirements for your degree.

You can register by picking up a "GS 6990 Graduate Study Completion Form" in your department or in the University Extension Office in SA 1700. You will need to obtain a signature from your major department.

Registration for Graduate Students

Master's degree students must follow the same registration policies and procedures as required for undergraduate students. (See the Registration chapter for details.)

Registration procedures for Thesis or Project courses are slightly different. Master's students must complete a "Special Registration Petition" for each quarter they wish to enroll in one of these courses. The petition should be submitted to the department office. This must be done no later than the last day of the Late Add period. The student is responsible for checking on the progress of this procedure.

University Grading Policy

It is an integral part of the teaching responsibility of the faculty to provide careful evaluation and timely assignment of an appropriate grade to each enrolled student. There is a presumption that grades assigned are correct. It is the responsibility of anyone appealing an assigned grade to demonstrate otherwise. In the absence of compelling reasons, such as instructor or clerical error, prejudice, or capriciousness, the grade determined by the instructor of record will be considered final.

For purposes of correcting an error, an instructor may change a grade with approval of his/her department chair and college dean. No grade may be changed once graduation has been recorded unless an error has been made, in which case students have one term after their degree has been awarded to dispute the grade and have it corrected, or if a Grade Appeal petition has resulted in a grade change. The administrative symbol for withdrawal cannot be assigned by a faculty member.

See the Registration & Enrollment chapter for the description of withdrawal policies and procedures.

Academic Grades

The typical grading pattern for courses you will take is "A-F"; the use of "+" and "-" is at the discretion of each instructor. Some departments do not allow "C" or "D" grades to be applied towards a master's degree; check with the academic department about its policy. A student may use courses taken on a "CR/NC" basis to meet the degree requirements only if the courses are offered exclusively on that basis. Typically, these courses are restricted to fieldwork and internships and a "CR" grade indicates that the student's work is at least of "B-" quality. In no case, however, may more than 15 units of the master's degree work be earned with "CR" grades in the standard 45-unit master's degree program. In post-baccalaureate (5000-level) courses, a "CR" grade also indicates that the work is at least of "B-" quality.

Also see *Glossary of Terms & Definitions* for grading symbols and their standards.

Academic Grading Symbols for Graduate Courses

The academic grading symbols used for graduate courses are as follows:

Academic Grade	Standard of Work Represented	Grade (Quality) Points
A	Superior	4.0
A-	Superior	3.7
B+	Adequate	3.3
B	Adequate	3.0
B-	Adequate ₁	2.7

C+	Substandard	2.3
C	Substandard	2.0
C-	Substandard	1.7
D+	Unacceptable	1.3
D	Unacceptable	1.0
F	Failing	0.0
CR ₂	Credit	0.0
NC ₂	No Credit	0.0

¹Note that a "B-" grade, though described as "adequate," generates fewer than 3.0 grade (quality) points and must be balanced by a grade of "B+" or higher.

²These grades cannot be selected by students. They are only available in graduate courses offered exclusively on a "credit/no credit" basis.

Administrative Grades

A student may also receive the administrative grades indicated above. It is important that students observe the differences among them. As noted in the Capstone Experiences section the Report in Progress grade ("RP") is used in courses when assigned work extends beyond one quarter. It indicates that work is in progress and has been evaluated and found satisfactory to date, but that assignment of a precise grade must await completion of additional work. A student cannot enroll in more units of RP-graded courses than are applicable to your degree. An "RP" in a thesis course becomes an "F" or an "NC" if the work is not completed in five years; an "RP" grade in any other course becomes an "F" or an "NC" after one year.

The Incomplete (Authorized) grade ("I") is used to indicate that:

1. a discrete portion of the required coursework has not been completed and evaluated in the prescribed time period due to unforeseen but fully justified reasons,
2. attending a future offering of the class is not required to complete the work, and

3. the instructor believes it likely that the student will earn credit for the course upon completion of that work.

An "I" must normally be made up within one calendar year immediately following the end of the term during which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. If the student receives an "I" and does not complete the work within the period specified by the instructor (in no case to exceed one year), the grade will be changed to an "IC" or "NC," depending on the grading pattern in which the student enrolled. (An extension may be granted by the department if military service or serious health or personal problems prevent the student from completing the work, or if the professor is away on leave during the quarter of expiration. Such extensions are for one quarter only, up to a maximum of two extensions, and must be approved by the instructor and the department chair.) The Request for Extension of Incomplete Grade form must be submitted to the Office of the Registrar before the end of the term in which the grade will lapse.

An Incomplete Charged ("IC") is used when the student receives an authorized incomplete ("I"), but does not complete the required coursework within the allowed time, and the original grading pattern of the course was "A-F." The "IC" replaces the "I" and is counted as a failing grade for computing their grade point average. The student may be able to receive up to two one-quarter extensions from the instructor. These extensions are for cause and must be approved by both the instructor and department chair. (Examples of cause include military service, serious health or personal problems, or instructor's leave of absence.) If the student wants credit for a course after an "I" has been converted to an "IC," they must re-register and pass the course.

A student can graduate with an "I" grade on their record if the course is not necessary for graduation. Remember that no grade may be changed once graduation has been posted

A Withdrawal Unauthorized ("WU") indicates that the student enrolled in a course, but did not withdraw from the course and also failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities, or both, were insufficient to make normal evaluation of academic performance possible. The "WU" is counted in your grade point average as an "F" grade.

The Report Delayed grade ("RD") is an administrative grade assigned to students for a course if the instructor notifies the Office of the Registrar that grade reports have been delayed by circumstances beyond his or her control. An example is the illness of the instructor at the end of the quarter. The instructor will replace the "RD" grade with an academic grade as soon as possible. If the instructor fails to replace it with an academic grade by the end of the following term, the grade "RD" will be converted to a "WU" or an "NC" depending on your grading pattern.

After the first two weeks of the quarter, students may withdraw from a course, and a "W" grade will be assigned if the reason for their request to withdraw from the course is due to circumstances beyond the student's control and they have obtained the appropriate approvals. This grade carries no connotation as to the quality of the work and is not included in GPA calculations. Under extreme circumstances the student may decide that they must withdraw from all their courses. If the student believes this may be necessary,

they must contact their graduate advisor or department chair as soon as possible for advice on the appropriate procedures to follow.

Note: A student may drop a course at any time during the first two weeks of instruction. (for "drop" procedures, see MyCSUEB). No mention of a dropped course appears on the student's permanent record.

Also see *Glossary of Terms & Definitions* for grading symbols and their standards.

Administrative Grading Symbols

The administrative grading symbols used for graduate courses are as follows:

Administrative Grade Symbols ³	Definitions	Grade (Quality) Points Earned
RP	Report in Progress	0.0
I	Incomplete (Authorized)	0.0
IC	Incomplete Charged	0.0
RD	Report Delayed	0.0
W	Withdrawal	0.0
WU	Withdrawal Unauthorized	0.0
AU	Audit	0.0

³For further definitions see the *Glossary of Terms and Definitions* chapter.

Grade Point Average (GPA)

The student's grade point average (GPA) is calculated by dividing the total number of quality hours (units attempted, excluding CR/NC courses) into the number of grade (quality) points earned. If they repeat a course required in the major, their department has the discretion, under specific circumstances, not to include an earlier attempt in the GPA calculation. The approval not to include the earlier attempt in the student's degree program must be submitted by their department to the Office of the Registrar. This may

be done at any time while a student is enrolled in the degree program, but may not be done after they have been awarded their degree.

The graduate program coordinator or department chair also has the discretion to request that grades in courses that do not count towards graduate degree requirements be excluded from a student's GPA calculation. This will be permitted only if those grades result in the student being placed on academic probation. These may include courses taken in a second baccalaureate program, or courses taken in a different graduate degree program. They may not be courses taken in the degree program that the student subsequently elects not to count toward graduate program requirements. They also may not include grades for courses that the student used for a conferred post-baccalaureate degree. The request not to include a grade in a student's GPA calculation must be submitted by the graduate coordinator or department chair to the Office of Academic Programs and Graduate Studies which will make the final determination of the request. This may be done at any time while a student is in the degree program, but may not be done after they have been awarded their degree.

If the student's GPA falls below 3.00, they should consult immediately with the graduate coordinator or major department chair.

Also see *Glossary of Terms & Definitions* for more information on grade point average and its significance.

Final Examination Policy

The student can expect the instructors to provide comprehensive course requirement information for each course at the beginning of the quarter. This will include the work that is expected of the student and the basis on which the student will be evaluated. Most courses have graded assignments throughout the quarter and a final examination or paper. The university's policy states that final examinations must be given only at the times published in the *MyCSUEB*. The purpose of this policy is to ensure fairness for all students. Exceptions are, therefore, rare and must be approved in writing by the department chair. A student should contact the department chair or college dean if they believe this policy is not being followed. If the student is in a course which has a separate laboratory, activity or discussion section, the instructor is permitted to give a separate final examination (but only for that section) during the last regularly scheduled meeting of the section.

Graduate Probation & Disqualification Policy

There are two types of probation and disqualification: (1) academic, and (2) administrative. If a student is an "Unclassified Post-Baccalaureate" student, (a student not in a master's degree or credential program), all of the following policies apply except that the minimum GPA requirement is 2.50 instead of 3.00.

Academic Probation

Students must maintain a 3.00 GPA in all units attempted after admission to their graduate program, including all prerequisite courses, to remain in good standing. If the student's GPA falls below 3.00, they will be placed on Academic Probation. (Grades in any coursework taken after admission to the student's master's program at CSUEB will count towards the GPA calculation for academic probation.) Should this happen, the student must consult with their graduate advisor prior to registering for the next quarter. The student is also encouraged to take advantage of various university services (such as advising and tutoring) designed to assist them.

Academic Disqualification

A student may be subject to academic disqualification by the Senior Director, Academic Programs and Graduate Studies if during any quarter while on probation they do not achieve the minimum 3.0 GPA in all units taken after admission to their graduate program. The student may also be disqualified if, at any time, they do not meet the academic criteria of their department. In addition, an appropriate campus administrator may disqualify a student who at any time during enrollment has demonstrated behavior so contrary to the standards of the profession for which the student is preparing as to render him/her unfit for the profession. In such cases, disqualification will occur immediately upon notice to the student.

Administrative Academic Probation

A student may be placed on Administrative Probation if they:

- withdraw from all courses for two consecutive quarters or any three quarters;
- do not progress towards their degree while enrolled (such as earning a number of "NC" grades);
- do not comply with appropriate academic requirements (such as taking the Writing Skills Test);
or
- earn only "IC," "F," "WU," and/or "NC" grades for two consecutive, or any three quarters.

Administrative Academic Disqualification

A student will be administratively disqualified if they:

- do not meet the conditions for removal of their Administrative Probation;
- are placed on Administrative Probation twice for the same reason;
- are placed on Academic Probation while on Administrative Probation.

Graduate Reinstatement after Disqualification

If a student is disqualified, either academically or administratively, they may apply for reinstatement to their graduate program by completing a "Petition for Graduate Reinstatement." The petition must be approved by your Graduate Coordinator or the department chair. Reinstatement will be approved only if the student is able to provide compelling evidence of their ability to complete their degree. Then it will be forwarded for consideration to the Senior Director, Academic Programs and Graduate Studies who has final authority to approve reinstatement. If a student should become disqualified a second time, their

reinstatement will normally not be considered. Reinstatement petitions are available on the Office of Graduate Studies web site.

Declassification from a Graduate Degree Program

A student may be declassified (dropped) from a graduate degree or credential program for a range of reasons, including, but not restricted to, unprofessional conduct; behavioral issues that interfere with the learning of others; failure to make progress toward the degree or program as set forth by the University and program policies; failure to meet grade requirements to maintain good standing in the program and/or University; and/or the department/program faculty determine that the student is incapable of completing degree requirements at the level expected of a graduate student in the discipline even if the GPA is above a 3.0.

The declassification request must be initiated by the major department with support from the department/program chair and college dean or designee. Requests are submitted to the Office of Academic Programs and Graduate Studies for final action and official notification to the student and the Registrar's Office. The Office of Academic Programs and Graduate Studies will also determine if the student should also be academically or administratively disqualified from the University. If the student is not disqualified from the University and wishes to continue in the University, a declassified student must formally apply to another graduate program or apply as a second baccalaureate student. (Second baccalaureate status is closed for budget reasons until further notice.) Declassified students will not be permitted to enroll through regular University or Open University in any undergraduate or graduate courses in the program or degree from which they were declassified. Unless the declassification was related to conduct issues that interfere with campus interactions, declassified students are eligible to apply to a new program and be accepted as a student by the department/program. The student must be accepted to a new program no later than three quarters after being declassified; otherwise, the student must reapply to the University.

Resolution of Disputes - Grade Appeal

If a student believes they have received an inappropriate grade or have been treated in an unfair way and they cannot resolve the matter informally with the instructor and department chair, the student should present their case to the Presidential Appointee to the Grade Appeal and Academic Grievance Committee (Academic Programs and Graduate Studies; Tel. 510-885-3716), no later than one quarter after the disputed grade was recorded. The Grade Appeal Committee may authorize a change of grade under certain circumstances. If the instructor of record does not assign a grade to an individual student, the appropriate failing grade for nonattendance ("WU" or "NC") is automatically recorded by Enrollment Management. A student may petition the Grade Appeal Committee if they believe the instructor should have assigned an academic grade.

Graduate Students: Conferring Honors at Graduation

Because graduate students constitute a select group whose members do very well in their programs, there are no academic honors conferred at graduation, and no dean's list recognition as is the case for undergraduates.

Graduate Enrollment: Full & Part-time Status

A student will be classified a full- or part-time student according to the following criteria:

- Full-time enrollment for a "**Graduate**" or "**Classified Post-baccalaureate**" student is 8 or more units. A student is considered to be a part-time student if they are enrolled for fewer than 8 units.
- Full-time enrollment for "**Unclassified Post-baccalaureate**" students not enrolled in a graduate degree program is 12 or more units in a regular quarter.

Full-time enrollment for **veterans** (or dependents of disabled or deceased veterans), or **reservists** under Chapter 30, 31, 33, 34, 35, or 106 is 12 or more units, according to V.A. regulations. Each quarter, veterans and eligible dependents should consult the Veteran Affairs Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits.

If a student is receiving **financial aid or benefits** from other programs (e.g., Veterans Administration or State Department of Vocational Rehabilitation), they may be subject to specific enrollment requirements to maintain your eligibility. The student should check directly with the source of their benefits.

If the student is an **international student on a non-immigrant visa**, the U.S. Immigration and Naturalization Service (INS) requires that the student pursue a full-time course of study in a specific program. The student is expected to complete 8 units per quarter and 24 per year.

Also see *Academic Load* in the Registration & Enrollment chapter.

Transferring Units as a Graduate Student

A minimum of seventy (70) percent of the total units required by the degree program must be completed **in residence** while enrolled as an admitted graduate student at Cal State East Bay.

Note: The number of transferable units for each degree program will be rounded to the nearest whole number of units.

Units taken while at other schools, while an undergraduate with permission to take graduate courses, while pursuing an additional baccalaureate degree in "Unclassified Post--Baccalaureate" status, while enrolled in another graduate degree program, or while enrolled in Continuing Education courses- including Open University courses- do not count as resident units. Courses offered in special session are considered resident units.

Please note that individual graduate programs may require more than 70 percent of the required degree units in residence, so check your particular program's section of this catalog for these requirements.

To request transfer credit:

1. The student must have taken the course after earning a bachelor's degree;
2. Their department must accept the course(s) as relevant to their degree program;
3. The institution at which the student took the course must customarily grant the level of credit for the course (graduate or upper division) that the student wishes to receive for it at Cal State East Bay;
4. The student must have taken the course within five calendar years immediately preceding the receipt of their degree.

In general, Cal State East Bay does not allow the use of credit-by-examination from challenged courses for master's degree requirements. Exceptions may be established by individual departments and must be noted in the degree description in the University Catalog. They are governed by the following policies:

- The student must pass the exam challenging the course with a grade of "B-" or better;
- Not more than 13 units of credit-by-examination may be applied to your degree; and
- Challenged courses may not be credited to the residency requirement of your degree.

Change of Educational Objective

If the student is a continuing post-baccalaureate student wishing to change their degree objective or credential program, or they wish to change from "Unclassified" status to a graduate degree or credential program, the student must file a "Change of Graduate Objective" with the Office of Admission using the web form available at www.csueastbay.edu/cogo.

Dual Master's Degree

If a student wishes to pursue two master's degrees at the same time, they should indicate this on their application or "Change of Graduate Objective" form filed with the Office of Graduate Admissions:

- Note that a student must fulfill all prerequisites and requirements for each degree (up to 13 units from the first degree may be applied to the second degree if agreed to by the second degree program); and
- The student must earn all units for each master's degree within the five calendar years immediately preceding the receipt of each degree.

If both degrees are in the same field (e.g., business administration), the degrees must each be earned in a different option and all 45 or more units must be from different courses.

Please note: Regularly matriculated students pursuing a state-supported master's degree at Cal State East Bay are not able to be simultaneously enrolled in CSUEB University Extension degree program.

Second Master's Degree

If a student already has a master's degree and wants to pursue a second master's degree, they must meet the following criteria:

- The student must apply and gain admission to the department offering the second master's degree program;
- The student must fulfill all prerequisites and requirements for the second degree;
- The student completes at least 32 units (32-39 in the Special Major, 35 in Public Administration, 39-41 in Multimedia, 59 in Counseling) in the second degree. Up to 13 units from the first degree may be applied to the second degree if accepted by the second degree program;
- The student must earn all units for the second master's degree within the five calendar years immediately preceding the receipt of the degree.

If the second degree is in the same field as your first degree (e.g., business administration), the second degree must be in a different option and all 45 or more units must be from different courses.

Time to Think About Graduation!

Students must apply for graduation one term in advance of the term in which they intend to graduate and must apply prior to the end of the Add/Drop period. Deadlines to file are listed under *Important Dates* on the University website under "Current Students". Continuing students can log into *MyCSUEB* on the university website and click on "Apply for Graduation." The student will be prompted to select the term for which they wish to graduate. There will only be one term to select since graduation applications are only accepted for one quarter at a time. A confirmation page will then appear. The student should print this page and give a copy to their department. Discontinued students can file for graduation using the "*Application for Graduation for Closed Matriculation*" form on the University website under "Current Students".

Note: Students are advised to review completion of degree requirements with their department before filing for graduation. Final graduation evaluation or "check-out" is typically completed within two months following the posting of grades from the student's final quarter of attendance.

Filing for Graduation

Students are advised to review completion of degree requirements with their department before filing for graduation.

The graduation filing fee will be charged to the student's account after they file for graduation. The fee can be paid by one of the following ways:

- online at *MyCSUEB*
- in person at the Cashiers' Office in the Student Enrollment Information Center (Student Services and Administration Building, 1st Floor) on the Hayward Hills Campus
- in person in the Academic Services Office on the Concord Campus

The Graduation Application Fee covers the cost of the graduation check of coursework completed the diploma, and participation in the annual commencement ceremony (*but not including cap and gown rental/purchase, handled separately by the Bookstore*). The fee is non-refundable, but if a student does not graduate when they originally intended, the fee will be transferred to the subsequent quarter automatically.

When a student files for graduation, they may obtain a new registration priority. To register for classes as a graduating graduate student, students must be a "classified Graduate" who is recommended for Advancement to Candidacy by their advisor and who has made substantial progress towards their degree by the time the registration appointments are assigned.

Priority Registration

When a student files for graduation, they may obtain a new registration priority. To register for classes as a graduating graduate student, students must be a "**Classified Graduate**" who is recommended for *Advancement to Candidacy* by their advisor and who has made substantial progress towards their degree by the time the registration appointments are assigned.

SSMP and Credential Program Students Filing for Graduation

If a student is completing an undergraduate *Single Subject Matter Preparation* Program for entry into a teaching credential program, or they are completing a graduate *Single or Multiple Subject Credential* Program, they should *not* file for graduation, but be certain that the appropriate check sheet is submitted by the department or program committee offering the program to the CSSC - (SAS,OTHER) Credentialing Services in the College of Education and Allied Studies.

Diplomas

After a student has completed all degree requirements and the graduation evaluator has verified their completion, their degree will be conferred and their diploma will be ordered. The final graduation evaluation process typically takes up to three months following the posting of grades from the student's last quarter of graduation candidacy. The diploma will be mailed to the student's address of record with the university 4-6 weeks after the degree has been awarded.

A diploma is an official document containing the embossed seal of Cal State East Bay, the student's name, the degree conferred and date, major(s) completed in the degree conferred, any options or minors completed, and the signatures of state and university officials. It is not reproducible or available in multiple copies. Students can obtain multiple copies of their record by ordering transcripts which also show degrees, majors and options, as well as other information. If a student needs proof of completion of their degree before receiving their diploma, they may request a verification of graduation or a transcript from the Office of the Registrar. Should a student change their name, they may request that a new diploma be issued with their new name if

- (1) they return the originally issued diploma to the Office of the Registrar
- (2) they provide legal documents confirming their legal name change, and
- (3) the student pays the fee for a new diploma.

After the degree is posted to a student's permanent record, a student's diploma and transcript cannot be altered by adding additional options, or by grade changes, and/or withdrawals. The University protects the integrity of its transcripts and will not rewrite history unless a University error has occurred.

Military & Veterans Information & Services

Servicemember & Veteran Opportunities

Cal State East Bay is a Servicemember's Opportunity College (SOC) and provides educational assistance for active duty servicemembers. For additional information read about SOC below.

Additionally, educational allowances, benefit counseling, advocacy, discharge upgrading assistance, tutorial assistance, and social service referrals are available to veterans attending Cal State East Bay under the Veterans' Administration or Cal-Vet programs, and to dependents of service-connected disabled and deceased veterans.

A permanent GI bill providing college educational allowances and other benefits for veterans is now in effect. For information on eligibility and procedures, students may contact the Veteran Office at (510) 885-3669, or in person in the Student Enrollment Information Center, or the Veterans' Administration at (800) 827-1000.

Each quarter veterans and eligible dependents should contact the Veteran Office before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits. Students are also responsible for reporting any changes in enrollment to the Veteran Office and to the V.A. as they occur.

Veteran Student Services

Admission

Full-time Enrollment

Credit for Military Training and USAFI

Credit for Military Service

Credit for Non-collegiate Instruction

Servicemember's Opportunity College

Military and Veterans' Code

Military Selective Service Act

Veteran Student Services

Veteran Student Services (VSS) provides wraparound student support services to all CSUEB veteran students. Program services are organized around three key areas:

- One-on-one holistic academic counseling for veterans that includes academic advisement, career & goal planning, scholarship guidance, graduate school advising, guidance on balancing academic and personal life
- Benefits advising for veterans, reservists, and dependents of veterans on completing and filing VA claim forms for federal and state education assistance programs, including assistance with special procedures for veterans priority registration and dependents CalVet College Fee Waiver program
- Developing and implementing student programs, both social and educational, recognizing the needs and interests of our veteran student population

Veteran Student Services, Library Annex (LI) 2200

Veterans Benefits Coordinator: Deborah Dorffi Hansana, (510) 885-3669

Veterans Retention Coordinator: Cherie Randolph, (510) 885-2244

Veteran's Admission

Veterans who meet the admission requirements may attend under full veterans' benefits. Information concerning veterans' programs is outlined at www.csueastbay.edu/veterans.

First-time freshmen and lower division applicants who are California resident veterans of the U.S. Armed Forces, but who do not meet regular entrance requirements may be considered for undergraduate admission if, in the university's judgment, the veteran has the potential to perform satisfactorily at the collegiate level. To be considered under this provision, veterans must have served 181 days active duty since 1955 with a discharge or separation under conditions other than dishonorable.

If an applicant wishes to be considered under this provision, the application for admission must include supporting documents, including separation papers (DD 214), and a letter petitioning special consideration. Transcripts and test scores are also required.

Full-time Enrollment for Veterans

Full-time enrollment for veterans (or dependents of disabled or deceased veterans), or reservists under Chapter 30, 31, 33, 34, 35, or 106 is 12 or more units, according to V.A. regulations. Each quarter, veterans and eligible dependents should consult the Veteran Affairs Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits.

Note: Undergraduate and graduate students who apply for Veterans' Benefits (or for benefits as dependents of disabled or deceased veterans), must be enrolled in courses that apply to a definite program (baccalaureate or master's degree and/or credential).

Credit for Military Training, Occupation, and Courses

Cal State East Bay grants nine units of elective credit toward a baccalaureate degree for a student who completed basic training and was honorably discharged from military service of the United States in accordance with the recommendation of the American Council on Education.

Note: Credit is not given for completion of the six month reserve training programs.

Commissioned officers may receive an additional nine units, which may be considered upper division credit. In order to receive such credit applicants must present written certification from a recognized military authority, such as papers from a military separation center (service form DD-214 or DD-295) or a Joint Services Transcript (JST). Credit for specific courses may be allowed if the student has satisfactorily completed equivalent study in a military service school. The guidelines of the American Council on Education are followed in determining eligibility.

Cal State East Bay is a Service member Opportunity College (SOC).

Credit for Non-Collegiate Instruction

Cal State East Bay grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate degree, which has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The numbers of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

Note: Lower division, occupational courses designed to train technicians are not acceptable for university credit. Credit granted for non-collegiate instruction is not generally applied to general education or major requirements.

Credit for Military Service

Cal State East Bay grants undergraduate degree credit for successful completion of non-collegiate instruction (either military or civilian) appropriate to the baccalaureate degree that has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education.

Attendance in military courses and schools must be documented by forms DD214 or DD295. Such credit shall be clearly identified on the permanent record.

Credit for the following types of courses may be granted:

- Lower division baccalaureate/associate degree credit courses which are comparable to courses offered on most CSU campuses. (Credit is not allowed for occupationally oriented courses designed to enable a student to function only as a technician.)

- Upper division baccalaureate degree credit courses.
- Graduate degree credit courses.

The numbers of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

Cal State East Bay shall determine which units shall be applied as general education, major, or elective credit and is a member of the Servicemembers Opportunity College (SOC).

Servicemember's Opportunity College

Cal State East Bay is a Servicemember's Opportunity College (SOC) and provides educational assistance for active duty servicemembers. SOC institutions offer the following benefits to servicemembers:

1. Admission procedures which ensure access to higher education for academically qualified military personnel;
2. Credit awarded for knowledge acquired through military experiences, if applicable to the servicemember's program of study;
3. Credit awarded for non-traditional learning, if applicable to the servicemember's program of study;
4. Acceptance of inter-institutional transfer credits, if they are appropriate for the servicemember's program and are consistent with the university's curriculum;
5. Residence requirements may be adjusted for military students who transfer, when there are other assurances of program balance;
6. Personnel with appropriate academic qualifications and experience administer and supervise SOC-related activities;
7. Educational services for veterans.

For information about the SOC program, contact the Veterans Affairs Coordinator.

Military and Veterans Code

Section 66025.3 - Dependent eligible to receive assistance under Article 2 of Chapter 4 of Division 4 of the Military and Veterans Code; child of veteran of the United States military who has a service-connected disability, has been killed in service, or has died of a service-connected disability, and meets specified income provisions; dependent, or surviving spouse (who has not remarried) of a member of the California National Guard who, in the line of duty, and while in the active service of the state, was killed, died of a disability resulting from an event that occurred while in the active service of the state, or is permanently disabled as a result of an event that occurred while in the active service of the state; and undergraduate student who is a recipient of or child of a recipient of a Medal of Honor, under 27 years old, meets the income restriction and California residency requirement.

Military Selective Service Act

The federal Military Selective Service Act (the "Act") requires most males residing in the United States to present themselves for registration with the Selective Service System within thirty days of their eighteenth birthday. Most males between the ages of 18 and 25 must be registered. Males born after December 31, 1959 may be required to submit a statement of compliance with the Act and regulations in order to receive any grant, loan, or work assistance under specified provisions of existing federal law. In California, students subject to the Act who fail to register are also ineligible to receive any need-based student grants funded by the state or a public post-secondary institution.

Selective Service registration forms are available at any U.S. Post Office and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to register them with the Selective Service. Information on the Selective Service System is available and the registration process may be initiated online at <http://www.sss.gov>.

Student Services

Cal State East Bay provides a variety of services to students under the direction of the Provost, the Vice President for Student Affairs, the Vice President for Administration and Finance, and the Associated Students. These services offer a number of special programs which help students derive the maximum benefit from their university experience. Also see *Cal State East Bay at a Glance* chapter for additional services not listed here.

Academic Advising &

Career Education Services

About AACE

Career Information

Career Preparation

EXCEL Program

Program for Accelerated College
Education (PACE)

Accessibility Services

About Accessibility Services

Project IMPACT

WorkAbility-IV Program

College Link Program

Student Administration Services

Concord Campus Student Services

Credentialing Student Services Center

Student Enrollment Information Center

Other Student Services & Programs

Associated Students Inc

Educational Opportunity Program (EOP)

International Education & Student
Exchange Programs

Renaissance Scholars Program

Student Center for Academic
Achievement

Student Life & Leadership Program

Student Services Operation for Success
(AANAPISI)

Transcript Requests

Testing Services

About AACE

Academic Advising and Career Education (AACE) is a one-stop center for both academic advising and career development assistance. Our counselors guide students in understanding and completing all General Education and graduation requirements in addition to helping them clarify and attain their career goals. AACE is also home to PACE (Program for Accelerated College Education) advising and is happy to open its doors to all eligible East Bay students and qualified alumni.

Career Information

The Academic Advising and Career Education (AACE) office may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. Any such data provided must be in a form that does not allow for the identification of any individual student. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all campuses in the California State University system.

Career Preparation

AACE provides, in addition to advising, counseling, information and employment services to assist students in transitioning from the university to graduate school or the professional workplace. These services include career advising and coaching, career exploration and assessment, occupational information, job search assistance, and employment information and referral. The office maintains a comprehensive Career Library with books, periodicals, videos, and online resources pertaining to job search, career guidance, and labor market information. A searchable online database of all books in the AACE Library is available on its website.

AACE offers regularly scheduled walk-in hours for resume critiques and career-related questions. Appointments are also available for longer counseling sessions. In addition, career assessments are available in AACE and on the AACE website to provide personal assessment and occupational information.

AACE offers workshops throughout the year, at both the Hayward Hills and Concord campuses. Subjects include resume writing, interview techniques, finding an internship, and personal skills assessments. Workshop and event schedules are listed on the website and in the Events Calendar. Calendars are available in AACE, online, and at eight "Career Corner" locations on campus.

Employers conduct on-campus interviews for graduating seniors and alumni in the fall, winter, and spring quarters. Participants are encouraged to attend an orientation session, either online or in the Center, before registering for interviews.

AACE hosts job fairs throughout the academic year for all undergraduates and graduates to explore career options and employment opportunities. Job fairs feature employers from local, national, and worldwide organizations. AACE also sponsors targeted recruitment events with a specific career or employment focus.

AACE maintains an online job database listing hundreds of part-time, full-time, temporary, and seasonal jobs and internships.

Cal State East Bay alumni and other working professionals in a variety of career fields provide CSUEB students with valuable career exploration information by telephone, e-mail, or in person. These "Career Contacts," available on the AACE website, offer valuable insight into their career fields and experiences.

AACE's website (www.csueastbay.edu/aace) provides 24/7 access to information about its services, workshops and events, major and career information, job listings, resume and interviewing guidelines, and other career resources. Students can search for jobs, obtain information about occupations and career fields, participate in the On-Campus Interview program, and view the calendar of upcoming career workshops and job fairs.

EXCEL Program

The EXCEL program (a TRiO Student Support Services program) is funded by the U.S. Department of Education. The program provides a variety of educational services for Cal State East Bay undergraduates who have a demonstrated academic need and are low-income, first-generation college or disabled. The major goals of the program are to increase the retention and graduation rates of program participants and to create a supportive environment that encourages academic success.

EXCEL Academic Life Planning Counselors assist students in developing academic plans to complete their undergraduate degrees and solve academically related problems. They also provide advising in general education requirements, career and goal planning, scholarship assistance, guidance on balancing academic and personal life, and graduate school admission.

Learning skills improvement is provided by the Learning Resources Counselor. Assistance includes diagnosing academic weaknesses in learning and language skills and providing support in test-taking, reading textbooks, taking lecture notes, study skills, time management, and offering tutoring in basic academic subjects.

EXCEL students also have access to a variety of reference books on careers, learning skills, English, mathematics, reading and scholarships on non-federal financial assistance available to women, minorities, and people with disabilities in California and throughout the United States. Information about summer programs and internships is also available.

To apply to the EXCEL Program or to find out more about its services, call 510-885-3722 or visit the main office located in the Library Complex (LI) Room 2450. Additional information can also be found on the website at www.csueastbay.edu/excel.

Program for Accelerated College Education (PACE)

Program for Accelerated College Education (PACE) is an innovative program which enables working adult students to make accelerated progress toward a Bachelor of Arts degree with a major in either Department of Human Development and Women's Studies or Liberal Studies Program. PACE classes are the same as those taken by students pursuing their degrees through the traditional university format. The only difference is the carefully structured course sequence which includes only courses in the evening, weekend and/or online, as well as the dedicated academic advising for PACE students. The PACE program is also available at the Cal State East Bay Concord Campus.

Convenient Locations

Hayward Hills Campus

Concord Campus

About Accessibility Services

Accessibility Services provides academic accommodations and support services to address the individual needs of students with differing abilities, permanent disabilities or temporary disabling conditions. Students with documented disabilities and functional limitations are eligible for services designed to provide equivalent access to all educational general campus and classroom programs and activities. Accessibility Services also offers campus referrals for advising, counseling, transportation, and employment needs.

The staff of Accessibility Services is committed to ensuring the rights and promoting the dignity, self-awareness and self-advocacy of students with disabilities throughout the university. They Accessibility Services values the diversity of the Cal State East Bay student body and works with the faculty, staff, and administration to create and maintain an inclusive environment where individuals with differing abilities disabilities have full and equal access to all University programs.

At the Hayward Hills campus, Accessibility Services is located in the Library Complex (LI 2400) and can be reached by phone DD at 510-885-3868 (V/TTY). At the Concord Campus, it is located in the Academic Services Building (Room 114) and can be reached by phone at 925-602-6716 (V), DD or, 925-602-8616 (TTY).

To learn more about Accessibility Services, including information about their services, policies, resources and the ADA faculty handbook, visit Accessibility Services website.

Project IMPACT

Project IMPACT is funded by a grant from the U.S. Department of Education TRiO Disability Student Support Services Programs to help eligible students with disabilities succeed in their academic program. The services provided by Project IMPACT are beyond the legally mandated services afforded to students with disabilities by Accessibility Services. Project IMPACT offers selected students individualized services such as:

- Academic Advising
- Tutoring
- Non-cognitive Skill Building (i.e., individual academic motivation, self-advocacy, perseverance, etc.)
- One-on-One Support
- Wellness Counseling
- Financial Aid and Scholarship Information
- Help with Choosing a Major and a Career
- Assistive Technology Computer Lab and Training

To be eligible for this program you must be:

1. A matriculating student at Cal State East Bay,
2. An individual with a disability,
3. A U.S. Citizen, national or permanent resident alien, and
4. Working toward your first baccalaureate degree.

For more information about Project IMPACT contact 510-885-2489 or visit:

<http://www20.csueastbay.edu/af/departments/project-impact/index.html>.

College Link Program

The College Link Program (CLP) is a specialized fee-based program to support students beyond the legally mandated services afforded to students with Autism and registered with Accessibility Services. CLP assists students with Autism in their transition to the higher education environment. The CLP philosophy is to increase student independence and decrease dependence on familial and coaching support over the course of the student's educational career. The CLP achieves this by leveraging the individual's strengths to foster development in four specific domains:

- educational,
- career,
- social, and
- independent living skills through creative approaches to meet individualized needs.

CLP coaches provide academic and social support to students in the classroom, internships, groups or clubs, and in University housing as needed. Please contact us at 510-885-2436, or visit: <http://www20.csueastbay.edu/af/departments/as/college-link-program> for more information.

WorkAbility-IV (WA-IV) Program

The WorkAbility-IV (WA-IV) Program is a specialized program that provides pre-employment services for Cal State East Bay students and alumni with disabilities who are also registered clients with the California Department of Rehabilitation. The program is dedicated to meeting student/alumni career development needs by creating job readiness and job search skills; securing internships, part-time or full-time job opportunities; and establishing relationships with the employing community to ensure successful transition into the employment market. The WA-IV Program is a collaborative interagency service agreement involving CSUEB's Accessibility Services and the California Department of Rehabilitation (DOR). For more information, please contact us at Accessibility Services at 510-885-3868 or visit: <http://www20.csueastbay.edu/af/departments/as/WorkAbility-IV/index.html>

Renaissance Scholars Program

Jointly funded by the University, private foundations, non-profit organizations, and individual donations, the Renaissance Scholars Program provides a variety of educational and support services for current or former foster youth attending Cal State East Bay. The major goals of the program are to create the retention and graduation rates of program participants and to create a supportive environment that encourages academic success.

Renaissance Scholars assists students in developing life and leadership skills while providing a wide variety of services including academic, career, and psychological counseling, scholarship opportunities, emergency assistance, priority registration, priority placement in on-campus housing, recognition events, workshops, and field trips.

To qualify for Renaissance Scholars, a student must meet the following criteria:

- Be a current or former foster youth attending Cal State East Bay between the ages of 17-23
- Qualify for "Independent Student Status" under federal financial aid guidelines
- Be a California resident
- Be a graduating high school senior or incoming community college transfer student
- Have a minimum high school GPA of 2.0
- Transfer students must have earned a 2.0 GPA in all transferable coursework
- Demonstrate high motivation and potential

To find out more about the Renaissance Scholars Program browse the website at www.csueastbay.edu/renaissance, email us at renaissance@csueastbay.edu, call 510-885-4426, or visit the office in the Student and Faculty Support (SF) building, suite 202.

Student Center for Academic Achievement

The Student Center for Academic Achievement provides academic support services that are as diverse as CSUEB's students - from peer tutoring, to group supplemental instruction sessions, to online assistance and tutoring. Our FREE services are available to fully matriculated CSUEB students. Our programs include:

- Peer Tutoring:
 - One-on-one assistance in Math, Statistics, and Writing with a trained peer tutor. The tutor's role is to not do the work for you, but to guide you in the process of learning the concepts in your course.
- Online Writing Lab:
 - The SCAA Online Writing Lab (OWL) allows CSUEB students to submit papers online and receive tutor feedback via email. We make every effort to return your papers within 48 hours after submission
- eTutoring:
 - If you need assistance in subjects currently not tutored at the SCAA or cannot come to the SCAA during our regular operating hours, you can log in to our eTutoring platform on the SCAA website to get near-24/7 assistance in courses such as Accounting, Spanish, and Biology.
- Writing Associates Program:
 - Trained student tutors are paired with an undergraduate course for one quarter to assist students in writing assignments that engage undergraduate students in the entire writing process, including feedback and revision.
- Supplemental Instruction:
 - Provides peer-assisted, collaborate, and active study sessions that improve understanding of subject content, fosters critical thinking, and encourages life-long learning to classes that are considered "at risk" (i.e. large lecture classes).
- WST Prep Programs:
 - The SCAA offers one-time in-person workshops, an online workshop, and an intensive, invite-only WST Boot Camp.

Cal State East Bay students are encouraged to use the Center regularly to improve their academic performance no matter what their skill level or class standing. Students are also encouraged to attend events sponsored by the Center, such as our quarterly, late-night extended hours tutoring event and contests.

The Student Center for Academic Achievement is located in the Upper Mall of the Library. Call 510-885-3674 or visit our website for information regarding hours, specific tutoring times, workshop dates, event information, or to schedule an appointment.

Student Life & Leadership Program

Student Life and Leadership Programs provides opportunities for student learning beyond the classroom and enhances the mission of the university through the coordination and support of a variety of special programs that promote campus life, leadership and community engagement. Special programs include

orientation for new students and families; the recognition and development of student clubs and organizations; leadership conferences, seminars and workshops; and campus wide programs and events.

More than 120 student clubs and organizations are active at Cal State East Bay. They encompass a broad range of interests, including academic, cultural, recreational, religious, special interest and Greek organizations (fraternities and sororities). These groups also offer important opportunities for personal growth and development, as well as valuable educational experiences beyond the traditional classroom setting. Student clubs and organizations sponsor many special events, including lectures, films, music, cultural programs, and social activities each quarter.

The Student Life and Leadership Programs staff provides support and consultation to student clubs and organizations in planning programs and events; fund raising, publicity and promotion; and developing service projects and cultural programs. The staff also assists students interested in forming new student organizations or participating in leadership development programs.

Fraternities and sororities actively contribute to campus life at Cal State East Bay. The Greek system includes five social sororities, six social fraternities, five cultural fraternities, six cultural sororities, two co-ed academic fraternities, and one co-ed community service fraternity. In addition to offering networking and social activities, fraternities and sororities encourage scholarship, leadership, community service, and affiliations that last a lifetime. Student Life and Leadership Programs provides support and assistance to individual chapters, as well as to the Greek governing councils.

Student Life and Leadership Programs offer students the opportunity to enhance their leadership skills through a variety of seminars, classes and conferences presented by campus and community leaders. Through these leadership programs, students gain the insight and skill to assume a leadership role on campus, in their career or in the community; build alliances with faculty, staff, alumni and community leaders; and enhance their future leadership potential. Various leadership programs, depending on the student's class level and interest, are offered fall, winter, and spring quarters and are open to all Cal State East Bay students

Getting involved in student clubs and organizations is an excellent way to meet other students, connect and engage with the campus community, develop leadership skills, pursue special interests, and persist to graduation. The university encourages students, faculty and staff to become active and involved in student clubs and organizations. More information is available from Student Life and Leadership Programs located in the New University Union, Room 2011, 510-885-3657; email: studentlife@csueastbay.edu; website: <http://www.csueastbay.edu/students/campus-life/student-life/slife/index.html>.

Leadership Development Programs

Student Life and Leadership Programs and the Division of Planning, Enrollment Management, and Student Affairs offer students the opportunity to enhance their leadership skills through a variety of seminars, classes and conferences presented by campus and community leaders. Through these leadership programs, students gain the insight and skill to assume a leadership role on campus, in their career or in the community; build alliances with faculty, staff, alumni and community leaders; and enhance their future leadership potential.

Various leadership programs, depending on the student's class level and interest, are offered fall, winter, and spring quarters and are open to all Cal State East Bay students. For additional information, contact Student Life and Leadership Programs in the University Union, Room 2011, 510-885-3657; email: studentlife@csueastbay.edu; website: <http://www.csueastbay.edu/slife>.

Student Services Operation for Success

The Student Service Operation for Success (SSOS) is funded by the U.S. Department of Education. The SSOS program began in late 2011 and provides a full range of academic support services, counseling and cultural activities directed at historically underserved Asian American and Pacific Islander students. California State University East Bay is designated as an Asian American Native American Pacific Islander Serving Institution (AANAPISI). SSOS promotes academic success for Asian American and Pacific Islander students in college and helps students be career ready when they graduate. The program's services include: Peer Mentorship, Academic Tutoring, Student Club Sponsorship, Leadership Class, Asian and Pacific Islander themed campus events, Academic Lecture Series, Financial Aid Workshops, Career Readiness Workshops, SSOS Workshops and more.

To apply to the SSOS Program or to find out more about its services, email us at: ssos@csueastbay.edu, call 510-885-SSOS (7767), or visit our office at ST 120. Additional information can also be found on the website at: <http://www20.csueastbay.edu/academic/academic-support/ssos-aanapisi/index.html>

Concord Campus Student Services

Cal State East Bay's Concord Campus, in central Contra Costa County, offers upper division and graduate instruction. Blending the natural beauty of its foothill setting with attractive facilities, small classes, and a personalized approach to teaching and learning, the Concord Campus serves more than 1,500 students. Classes are conducted in 21 classrooms and eight teaching laboratories, including a 125-seat auditorium and a spacious art studio.

The Concord Campus provides a full range of student support services designed to enhance students' abilities to succeed in their academic endeavors. The Academic Services (AS) Lobby serves as a one-stop center for students to complete registration, records and enrollment services functions on the Concord Campus.

Additionally, the following student services are available on the Concord Campus: Associated Students, Academic Advising and Career Education, Accessibility Services, Bookstore, Cashier, Clubs and Organizations, Commencement, Commuter Shuttle, Financial Aid, New Student Orientation, Personal Counseling, Pre-Admissions Counseling, Student Health Services, Transfer Center, Tutoring and University Police.

For assistance, or information on any of these services, call (925) 602-6700 or visit <http://www20.csueastbay.edu/concord/>

Credentialing Services

The Credential Student Service Center (CSSC), in the College of Education and Allied Studies provides a one stop center for all students inquiring about credential program application requirements and procedures and information about applying for or renewing teaching credentials. The CSSC is designed to inform and assist students in fulfilling application procedures, early field experience, meeting program requirements, and maintaining student records. The Credential Student Service Center is located in the Art Education Building Room 235, (510) 885-2272.

International Education & Student Exchange Programs

Center for International Education

The Center for International Education (CIE) provides a range of services to international students and scholars that are designed to facilitate their transition to a new environment and to optimize their educational opportunities while at Cal State East Bay. These services include:

1. pre-departure advising
2. orientation for new students
3. assistance in understanding and complying with university rules and regulations
4. counseling designed to help students adjust to life in the USA
5. advice on relevant immigration regulations
6. guidance for students regarding legal employment while in student status
7. referrals for on-campus support services
8. workshops on topics of special interest to international students.

Study Abroad Programs

The study abroad opportunities offered through California State University, East Bay allow Cal State East Bay students to study overseas for one semester or academic year and earn academic credit towards their degree. The experience leads to personal growth and acquisition of valuable skills, such as language fluency and cross-cultural understanding. Financial aid (except Work-Study) may apply, and study abroad scholarships are available.

CSU International Programs: Students can study abroad for a full academic year through the CSU system.

Bilateral Programs: Bilateral exchange programs are one-to-one exchanges with another university overseas. Program length varies from one quarter to a full academic year.

International Student Exchange Program (ISEP): Through ISEP, students have the opportunity to study in over 120 study sites around the world for a semester or a full academic year.

Summer London Program: The British Documentary Experience is a study abroad program designed to give major and non-major undergraduate students a practical and powerful educational opportunity to study the history and practice of documentary filmmaking in the United Kingdom.

National Student Exchange Program

Cal State East Bay students can study at another university in the United States or Canada through the National Student Exchange Program (NSE). NSE offers study opportunities in diverse university settings and provides access to a wide array of courses and programs. Students may use financial aid. Coursework applies to their degree.

For additional information on the Center for International Education's services or the programs listed above contact:

Center for International Education
LI 2550
Tel: 885-2880; Fax: 510-885-2787
Email: cie@csueastbay.edu
Web: www.csueastbay.edu/CIE

Student Enrollment Information Center

The Hayward Campus Student Enrollment Information Center is located on the first floor of the Student Services and Administration Building. It provides general information and forms related to admission, academic advising, financial aid, records and registration, VA benefits, and graduation evaluation. The Student Enrollment Information Center is open Monday through Thursday from 8:30 a.m. to 5:30 p.m.; and Friday from 10:00 a.m. to 5:00 p.m. Extended hours during the first five days of instruction each quarter are 8:00 am to 6:00 pm except Fridays when the closing time is 5:00 pm. The Cashier's Office, also located on the 1st floor of Student Services and Administration Building next to the Student Enrollment Information Center, is open Monday from 8:30 a.m. to 6:00 p.m.; Tuesday through Thursday from 8:30 a.m. to 5:00 p.m.; and Friday from 9:30 a.m. to 4:30 p.m. Students seeking service from departments should contact those offices directly.

The UEX - (SAS,OTHER) Campus Student Services Lobby (925-602-6700) provides the same services as the Hayward Campus, with the exception of academic advising and graduation evaluation. The Academic Services Lobby is open Monday through Thursday, 9:00 a.m. to 6:30 p.m.

Educational Opportunity Program (EOP)

Established in 1969, the Educational Opportunity Program (EOP) provides admission and retention support services to low-income and educationally disadvantaged California residents who demonstrate the motivation and potential to succeed in college. EOP identifies and admits students who have the potential to succeed at California State University campuses, but who have not achieved their educational goals because of economic and/or educational background. EOP provides students with the resources, tools and skills to ensure academic and personal success through a variety of academic support services. These services provided by EOP include recruitment, preadmission counseling, special admissions, a Summer Bridge program (for entering EOP freshmen), specialized orientation sessions, academic advisement, personal counseling, skill-enhancement workshops, career guidance, peer advising, support groups, social/cultural activities, referral services, and EOP grants for eligible students.

EOP accepts students who qualify for regular admission, as well as a limited number of students who do not meet regular admission criteria. Only low-income and educationally disadvantaged undergraduate students who need admission assistance and/or support services to succeed at Cal State East Bay are admitted to EOP. Additionally, students must be first generation, California residents or AB 540, and meet the income eligibility criteria. They must also demonstrate academic potential and motivation to succeed.

To apply for admission to the program, prospective students must complete the online *Cal State Apply* application for Undergraduate Admission and check the appropriate box for EOP services. Once the CSUEB application is submitted (online), EOP applicants will receive an online EOP link and have access to complete the EOP Applicant Information Form and two EOP recommendation forms. Students must have all three documents submitted in order for their EOP application to be complete.

Flash Note: CSUMentor will be changing to Calstate.edu/Apply beginning June 1, 2017.

EOP is a high-demand program which only accepts applications for Fall term from applicants new to the CSU system. Currently enrolled and/or previously enrolled students (not formerly in an EOP CSU program) are not eligible to apply. Applicants who submit all required documents will be reviewed and if selected, will be admitted to EOP. All EOP freshmen receiving exception admission are required to attend the EOP Summer Bridge program as a condition of their admission for Fall term.

For assistance or for further information about EOP, please visit the EOP Office at the Library Complex (LI), Room 2500, or online at www.csueastbay.edu/eop. Prospective applicants can also email us at eopadmissions@csueastbay.edu or call 510-885-4683.

Associated Student, Inc.

Associated Students, Inc.

Phone: 510.885.4843

<http://www.csueastbay.edu/asi>

As a 501.3c non-profit auxiliary corporation of the CSU, the Associated Students, Inc. (ASI) is the official voice of the students of CSU East Bay. The ASI represents and advocates on behalf of the interests, needs, and concerns of our diverse and dynamic student body, and provides students with the services and resources to supplement and support their college experience. Each Spring, elections are held to fill the Board of Directors which consists of 15 students representing all the colleges and executive offices.

Business Office

Located in Suite 314 of the Original University Union, ASI Staff work with students to fulfill their organizational needs by providing special services to recognized student clubs and organizations.

Programming

ASI Presents produces a variety of special programs and events to meet the social, cultural and entertainment needs of the CSU East Bay community.

Student Media

The university newspaper, *The Pioneer*, is produced in the Department of Communication. Student involvement in production of *The Pioneer* includes writing, editing, graphics, photography and advertising. *The Pioneer* is also published on the Internet. For more information about the paper, call *The Pioneer* office at 510-885-3175. For more information about the advertising agency which sells ads in *The Pioneer*, call the agency office at 510-885-3526.

Transcript Requests

Students may obtain official transcripts of coursework taken at Cal State East Bay (including continuing education and special session courses) from the Office of the Registrar. Refer to the transcripts section on the university website for current ordering procedures and costs.

For transcript requests that arrive via the mail, the request should include: name, other name(s) which may appear on records, NetID or Social Security number, address, dates of attendance, and the complete address to which the transcript is to be sent. The university cannot be responsible for the consequences of failure to supply any of the above information. Mailed requests must also include a check (*payable to Cal State East Bay*) for the current fee. **Please do not send cash with mailed requests.** Address the request to Office of the Registrar, Transcript Request.

Students with financial and judicial holds placed by the university, or with academic, document, library, equipment, or other obligations to Cal State East Bay, are not permitted to receive transcripts or to request transcripts to be sent to other institutions.

Testing Services

The Testing Office provides standardized testing and scoring for students, faculty, and administration. The office administers a variety of tests including placement and proficiency tests for Cal State East Bay and other CSU campuses and national admission and matriculation tests for undergraduates and graduates.

There are two test requirements of which all students should be aware:

The EPT and ELM (*English Placement Test and Entry Level Math Test*) are required of all new undergraduates before enrollment except for a few categories of exemptions. You may be exempt from the EPT/ELM requirements if you can meet the waiver requirements. (See "Which undergraduate placement examinations do I need to take?" in the Registration chapter.) You will be mailed an EPT/ELM test application upon admission to Cal State East Bay. Contact the Admissions Office, Academic Advising and Career Education, or on the Testing Office website.

The Writing Skills Test (WST) must be taken by all undergraduate students at the beginning of the junior year, and by all graduate students upon admission to a program unless they elect to meet the requirement through coursework. For test dates and registration information, Please check the Testing Office website, and select WST.

Other tests for Cal State East Bay students to be aware of include the following:

The State Education Code State Education requirements in U.S. History, the U.S. Constitution, and California State and Local Government (CODE) in may be met by coursework or a special set of tests developed by the College Board called CLEP. For additional information and registration, please contact the Testing Office at (510) 885-3661.

Other tests administered by the Testing Office:

The ACT (American College Test) and the SAT (Scholastic Aptitude Test), one of which is required for entering freshmen and transfer students with less than 90 acceptable quarter units. Test results are not required of students earning high school grade point averages of 3.00 or higher (3.61 for nonresidents). Information about other tests administered on campus is available on the Testing Office website.

The MAT (Miller Analogies Test) is required by some graduate departments. See graduate program chapters in this catalog for further information. Additional information can be found by contacting the Testing Office at (510) 885-3661.

For information about the following contact the Testing Office at (510) 885-3661.

- CBEST (California Basic Educational Skills Test),
- CLAD/BCLAD (Bilingual Cross-cultural Language and Academic Development Examinations),
- CLEP (College-Level Examination Program),
- GMAT (Graduate Management Admission Test),
- GRE (Graduate Record Examinations),

- LSAT (Law School Admissions Test),
- MCAT (Medical College Admission Test),
- RICA (Reading Instruction Competence Assessment), and
- PRAXIS (Professional Assessments for Beginning Teachers)
- TEAS (Test of Essential Academic Skills)
- TOEFL (Test of English as a Foreign Language),

Student Rights, Responsibilities & Conduct

About Student Freedoms, Rights, and Responsibilities

California State University East Bay exists for the transmission of knowledge, the pursuit of truth, the development of students, and the general well-being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of the academic community, students are encouraged and expected to develop the capacity for critical judgment, to accept appropriate responsibilities, and to engage in rational debate utilizing critical thinking, in a sustained and independent search for truth.

Freedom to teach and freedom to learn are inseparable components of academic freedom. The freedom to learn depends largely upon appropriate opportunities and conditions in the classroom, on the campuses and in the larger community. The responsibility to secure and to respect general conditions conducive to the freedom to teach and learn is shared by all members of the academic community.

Listed on this page are standards and regulations on students' freedoms, rights, and responsibilities that are authorized by federal and state laws and by CSU policies.

Student Rights

Fundamental Freedoms, Rights, and Responsibilities

Freedoms, Rights, and Responsibilities for Access and Retention

Off-Campus Freedom of Students

Freedom of Association

Freedom of Inquiry and Expression

Information Concerning Course Requirements

Final Exam Rights

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Student Responsibilities & Conduct

Standards for Student Conduct

Academic Dishonesty

Evidence of Dishonesty

Violation of Federal Copyrights Law

Use of Alcohol and Other Drugs

Data Integrity Responsibilities Policy

Declassification from a Graduate Degree Program

Information Regarding Campus, Criminal and Civil Consequences of Committing Acts of Sexual Violence

Reporting to University Police or University Employees

CSU Nondiscrimination Policies

Whom to Contact if You Have
Complaints, Questions or Concerns

Safety of the Campus Community is
Primary

Confidentiality and Sexual Misconduct,
Dating Violence, Domestic Violence and
Stalking

Student Rights Concerning Data Integrity
Policy

Student Publications

Additional Information Concerning
Sexual Violence

Student Participation in Institutional
Government

Whistleblower Protection

Student Complaint Procedure

Resolution of Disputes

Student Rights

Fundamental Freedoms, Rights, and Responsibilities

A basic component of the university mission statement is the value of diversity in background, interests, experiences, beliefs, and cultures. Faculty, staff and students represent a variety of interests. Students come to campus with unique experiences, and while on campus, as a result of their interaction in the formal classroom and co-curricular programs and activities, they continue to develop and expand their knowledge and pursuits.

- In the Classroom
 - The institution maintains minimum standards in order to preserve the following fundamental freedoms for students:

- Freedom to teach and freedom to learn are inseparable components of academic freedom. Student academic freedom is incorporated into the classroom setting where learning is concentrated and structured. Faculty and students share responsibility for student academic freedom in the classroom. The following minimum standards enhance student academic freedom in the classroom.
- Freedom of Expression
 - Students are free to take reasonable exception to the data or views offered in any course of study and to reserve judgment about matters of opinion. Students are responsible for learning the content of any course of study for which they are enrolled.
 - Protection Against Improper Academic Evaluation
 - Students are responsible for maintaining standards of academic performance established for each course in which they are enrolled. Orderly procedures protect students from prejudice or capricious academic evaluation.
- Protection against improper disclosure
 - Policies and practices protect students from improper disclosure of information about the students' views, beliefs, and political activities which professors acquire in the course of their work as instructors, advisers, and counselors and such information shall be considered confidential. Judgments of academic ability and character may be provided under appropriate circumstances, normally with the knowledge or consent of the student.
- The Grade Appeal and Academic Grievance Committee (Academic Programs and Graduate Studies, Student Services and Administration Building, 4500), which operates under the supervision of the Academic Senate, exists to resolve grade disputes and other academic grievances. Reports of discrimination will be handled by the Director, Office of Equity and Diversity (Student Services and Administration Building), 510-885-4918; TTY 510-885-7592.

Reports of student misconduct including those relating to academic dishonesty will be handled by the Office of Student Conduct, Rights and Responsibilities, <http://www.csueastbay.edu/sdja> (Student Services and Administration Building, 1st Floor) 510-885-3763.

Freedoms, Rights, and Responsibilities for Access and Retention

In all aspects of access to programs and services provided or sponsored by the institution, students have a right to be free from discrimination on the basis of individual attributes, including, but not limited to race, color, gender, age, disability, national origin, or sexual orientation. Admission to the university is limited by standards which are promulgated by the California legislature and the CSU Board of Trustees. Realities of the campus budget and facilities may impose additional constraints.

Beyond academic, fiscal, and physical limits to admission to the university, prospective and enrolled students have a right to unobstructed access to campus programs and services. In special cases, and with the CSU chancellor's concurrence, selected degree programs may be given "impacted" status, which adds certain stipulations and/or restriction on access to those majors.

Students have a right to be informed about the institution's policies for access and retention in order to take responsibility for making appropriate choices and to participate effectively in campus programs and

services. Issues regarding freedom of access should be referred to the supervisor(s) of the appropriate program or service first. If the matter is not resolved satisfactorily, the student has the right to refer the issue through administrative channels to the Vice Presidents, or to Academic Affairs.

Off-Campus Freedom of Students

The university has the responsibility to protect students' citizenship rights on campus, and with regard to approved activities which occur off campus. Off-campus activities of students may, upon occasion, result in violation of the law. Students who violate the law may incur penalties prescribed by civil authorities, but institutional authority will not be used merely to duplicate the functions of general laws.

As stated in the University's Policy on Time, Place and Manner of Free Expression, "Universities are venues for creative, thoughtful and respectful discourse where conflicting perspectives are vigorously debated and thoroughly discussed." The University's policy can be found online at: www20.csueastbay.edu/policies/index.html

Freedom of Association

Students are free to organize and join associations to promote their common interests and to have these associations be considered for recognition by the university. "Institutional recognition" is understood to refer to the formal relationship between the student organization and the institution. Recognized student organizations are responsible for abiding by all institutional regulations for student organizations. These regulations are available in the office of Student Life Programs (New University Union, 2nd Floor).

Freedom of Inquiry and Expression

Students and student organizations are free to examine and discuss all questions of interest to them and to express opinions publicly and privately as long as others' rights are not violated in the process. Students are always free to support causes by orderly means which do not disrupt the regular and essential operation of the institution. However, such public expressions or demonstrations speak only for the student(s) involved, and not for the institution.

Course Requirement Information

Faculty shall provide you with a course syllabus, which should be placed on the course Blackboard site at the beginning of the quarter, containing the following information:

- Name of instructor, office location, office hours, office telephone number, and @csueastbay.edu e-mail;
- Course number and title, classroom location, number of units, prerequisites, a course description, objectives and student learning outcomes;
- Required texts and any other required and/or recommended materials;
- Student-supplied equipment and materials necessary for course activities;
- Course specific requirements and their due dates, such as examinations, quizzes, papers, field trips, and labs;
- Grading policy, which includes the relative weight of examinations, quizzes, papers, class participation, and other factors, and the grading scale;
- Attendance and make-up work policies and implications for grading;
- The following statement and reference to University policies regarding cheating and academic dishonesty: "By enrolling in this class the student agrees to uphold the standards of academic integrity described at: <http://www20.csueastbay.edu/academic/academic-policies/academic-dishonesty.html>."
- Accommodations for students with disabilities. Sample statement: "If you have a documented disability and wish to discuss academic accommodations, or if you would need assistance in the event of an emergency evacuation, please contact me as soon as possible. Students with disabilities needing accommodation should speak with the Accessibility Services."
- Emergency information. Sample statement: "California State University, East Bay is committed to being a safe and caring community. Your appropriate response in the event of an emergency can help save lives. Information on what to do in an emergency situation (earthquake, electrical outage, fire, extreme heat, severe storm, hazardous materials, terrorist attack) may be found at: <http://www20.csueastbay.edu/af/departments/risk-management/ehs/emergency-management/index.html>. Please be familiar with these procedures. Information on this page is updated as required. Please review the information on a regular basis."

Faculties also are encouraged to include additional items such as:

- Course outline;
- Types of quizzes and exams (e.g., true-false, multiple choice, short-answer, essay);
- Availability of appropriate tutoring services;
- Policies regarding audio and video recording and use of electronic devices;
- Reference to University classroom behavior policies;
- Classroom food and drink policies.

Furthermore, faculty should advise you of their expectations for you in the course no later than the end of the second class. Any changes in course requirements should be communicated to you in a timely manner. It is your responsibility to read the course statement and to request any clarification of course policies. If you add the course after the first week of class, you must seek course information in a timely manner.

Note: This policy is to be implemented by each department.

Final Exams Rights

Instructors will fully inform students of the manner of their evaluation as well as requirements and assignments. Typically, there will be periodic examinations, graded assignments, and a final examination. Final examinations are administered only during final exam week and only at the times scheduled by the university. Exceptions for compelling reasons are authorized in writing by the department chair with a copy to the college dean. The day and start time of the first lecture in the week determine the final examination time. Some courses contain a separate laboratory, activity, or discussion segment. Instructors may give a final examination on that segment during the last class meeting of that segment.

Faculty Office Hours

The faculty of the university is available during regularly scheduled office hours, which are at times other than scheduled classes. The times of the office hours are posted outside each faculty office, at the faculty member's department, on the department website, and on the faculty member's course syllabi. The faculty member informs the department of his/her office hours the first day of classes each quarter.

Full-time faculty members maintain a minimum of three (3) office hours per week and also make provision for meeting with students by appointment at a mutually convenient time beyond the stated office hours. The full-time faculty member's office hours shall be held over at least two days and at least in half-hour blocks. Part-time faculty will maintain the equivalent of one (1) office hour per week for each four WTUs of their teaching load with a minimum of one hour and a maximum of three hours per week.

Faculty teaching online must also hold office hours and may make alternative arrangements with the Department Chair to be available online or by telephone. Online faculty's office hours must include at least one (1) hour of availability by telephone per week.

If for any reason a faculty member cannot meet the posted office hours, the faculty member will inform the Department Chair. If possible, the department will note the absence on the faculty office door.

Note: Normal office hours are to be maintained during the Final Examination period. If a final examination conflicts with a posted office hour, an alternative hour is to be posted for that week alone.

Privacy Rights of Students in Education Records

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect students' privacy in their records maintained by the campus. The statute and regulations govern access to certain student records maintained by the campus and the release of such records. The law provides that the campus must give students access to most records directly related to the student, and must also provide opportunity for a hearing to challenge the records if the student claims they are inaccurate, misleading, or otherwise inappropriate. The right to a hearing under this law does not include any right to challenge the appropriateness of a grade determined by the instructor. The law generally requires the institution to receive a student's written consent before releasing personally identifiable data about the student. The

institution has adopted a set of policies and procedures governing implementation of the statute and the regulations. Copies of these policies and procedures may be obtained at the **Office of the Registrar, Student Services and Administration Building, 3rd Floor.**

Among the types of information included in the campus statement of policies and procedures are:

- (1) the types of student records maintained and the information they contain;
- (2) the official responsible for maintaining each type of record;
- (3) the location of access lists indicating persons requesting or receiving information from the record;
- (4) policies for reviewing and expunging records;
- (5) student access rights to their records;
- (6) the procedures for challenging the content of student records;
- (7) the cost to be charged for reproducing copies of records; and
- (8) the right of the student to file a complaint with the Department of Education.

The Department of Education has established an office and review board to investigate complaints and adjudicate violations. The designated office is: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, D.C. 20202-5920.

The campus is authorized under the Act to release "directory information" concerning students. "Directory information" may include the student's name, address, telephone listing, electronic mail address, photograph, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, grade level, enrollment status, degrees, honors, and awards received, and the most recent previous educational agency or institution attended by the student. The above-designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying what information the student requests not be released. Written objections should be sent to the **Office of the Registrar, Student Services and Administration Building, 3rd Floor.**

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons have responsibilities in the campus's academic, administrative or service functions and have reason for accessing student records associated with their campus or other related academic responsibilities. Student records will be disclosed to the Chancellor's Office of the California State University in order to conduct research, to analyze trends, or to provide other administrative services on behalf of the CSU. Student records may also be disclosed to other persons or organizations under certain conditions (e.g., as part of the accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; or to other institutions to which the student is transferring).

CSU Nondiscrimination Policies

Ethnicity, National Origin, Age, Genetic Information, Religion and Veteran Status

The California State University does not discriminate on the basis of Age, Genetic Information, Marital Status, Medical Condition, Nationality, Race or Ethnicity (including color and ancestry), Religion (or religious creed), and Veteran or Military Status in its programs and activities, including admission and access. Federal and state laws, including Title VI of the Civil Rights Act of 1964 and the California Equity in Higher Education Act, prohibit such discrimination. Risk Management & Internal Control (Student Services and Administration Building), 510-885-4918; TTY 510-885-7592 has been designated to coordinate the efforts to comply with all applicable federal and state laws prohibiting discrimination on these bases.

Inquiries concerning compliance may be presented to the contact # above. CSU Executive Order 1097, revised October 5, 2016 (<http://www.calstate.edu/EO/EO-1097-rev-10-5-16.pdf>) is the systemwide procedure for all complaints of discrimination, harassment or retaliation *made by students* against the CSU, a CSU employee, other CSU students or a third party.

Religious Observance

The faculty of California State University East Bay, welcoming the religious and spiritual diversity of our student body, recognize that upon occasion students' religious observances may conflict with other requirements. California Education Code Section 89320 requires faculty to reschedule a test or examination, without penalty to the student, when the regularly scheduled test or examination conflicts with the student's religious observances. Students with other scheduling conflicts related to religious observance should bring these to the attention of the instructor in a timely manner, so that the student will be accommodated, if at all possible.

Disability

The California State University does not discriminate on the basis of Disability (physical and mental) in its programs and activities, including admission and access. Federal and state laws, including sections 504 and 508 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, prohibit such discrimination. The Director of Community Welfare & Coverage has been designated to coordinate the efforts of Cal State East Bay to comply with all applicable federal and state laws prohibiting discrimination on the basis of disability.

Inquiries concerning compliance may be presented to Jill Millican at Cal State East Bay, Risk Management and Internal Control, 25800 Campus Drive, Hayward, CA 94542, 510-885-4227.. CSU Executive Order 1097 (<http://www.calstate.edu/EO/EO-1097-rev-10-5-16.pdf>) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made by students against the CSU, a CSU employee, other CSU students or a third party.

Gender/Gender Identity/Gender Expression/Sexual Orientation

The California State University does not discriminate on the basis of gender (or sex), gender identity (including transgender), gender expression or sexual orientation in its programs and activities, including admission and access. Federal and state laws, including Title IX of the Education Amendments of 1972, prohibit such discrimination. Risk Management and Internal Control has been designated to coordinate the efforts of Cal State East Bay to comply with all applicable federal and state laws prohibiting

discrimination on these bases. Inquiries concerning compliance may be presented to Risk Management and Internal Control, California State University, East Bay, 25800 Carlos Bee Boulevard, Hayward, CA 94542-3026, 510-885-2743 (Voice), 510-885-7592 (TTY); Fax: 510-885-4690. The California State University is committed to providing equal opportunities to all CSU students in all campus programs, including intercollegiate athletics.

Title IX of the Education Amendments of 1972 protects all people regardless of their gender, gender identity or gender expression from sex discrimination, which includes sexual harassment and violence:

Gender Discrimination

Gender discrimination means an adverse act taken against an individual because of gender or sex (including sexual harassment, sexual misconduct, domestic violence, dating violence, and stalking) that is perpetrated against an individual on a basis prohibited by Title IX of the Education Amendments of 1972, 20 U.S.C. §1681 et seq., and its implementing regulations, 34 C.F.R. Part 106 (Title IX); California Education Code §66250 et seq., and/or California Government Code §11135.

Sexual Harassment

Sexual harassment is a form of sex discrimination, is unwelcome verbal, nonverbal or physical conduct of a sexual nature that includes, but is not limited to:

- 1. Submission to, or rejection of, the conduct is explicitly or implicitly used as the basis for any decision affecting a Complainant's academic status or progress, or access to benefits and services, honors, programs, or activities available at or through the University; or
- 2. The conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the Complainant, and is in fact considered by the Complainant, as limiting his or her ability to participate in or benefit from the services, activities or opportunities offered by the University; or
- 3. The conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the Complainant, and is in fact considered by the Complainant, as creating an intimidating, hostile or offensive environment.

Sexual Harassment could include being forced to engage in unwanted sexual contact as a condition of membership in a student organization; being subjected to video exploitation or a campaign of sexually explicit graffiti; or frequently being exposed to unwanted images of a sexual nature in a classroom that are unrelated to the coursework.

Sexual Harassment also includes acts of verbal, non-verbal or physical aggression, intimidation or hostility based on Gender or sex-stereotyping, even if those acts do not involve conduct of a sexual nature.

Executive Order 1097 covers unwelcome conduct of a sexual nature. While romantic, sexual, intimate, personal or social relationships between members of the University community may begin as consensual, they may evolve into situations that lead to Sexual Harassment or Sexual Misconduct, including Dating or Domestic Violence, or Stalking, subject to this policy.

Note: Claiming that the conduct was not motivated by sexual desire is not a defense to a complaint of harassment based on Gender.

Sexual Misconduct

All sexual activity between members of the University community must be based on affirmative consent. Engaging in any sexual activity without first obtaining affirmative consent to the specific activity is sexual misconduct, whether or not the conduct violates any civil or criminal law. Sexual activity includes, but is not limited to, kissing, touching intimate body parts, fondling, intercourse, penetration of any body part, and oral sex. It also includes any unwelcome physical acts, such as unwelcome sexual touching, sexual assault, sexual battery, rape, and dating violence. When based on gender, domestic violence or stalking also constitute sexual misconduct. Sexual misconduct may include using physical force, violence, threat or intimidation, ignoring the objections of the other person, causing the other person's intoxication or incapacitation through the use of drugs or alcohol, or taking advantage of the other person's incapacitation (including voluntary intoxication) to engage in sexual activity. Men as well as women can be victims of these forms of sexual misconduct. Sexual activity with a minor is never consensual when the complainant is under 18 years old, because the minor is considered incapable of giving consent.

Sexual Assault

Sexual Assault is a form of sexual misconduct and is an attempt, coupled with the ability, to commit a violent injury on the person of another because of that person's gender or sex.

Sexual Battery

Sexual Battery is a form of sexual misconduct and is any willful and unlawful use of force or violence upon the person of another because of that person's gender or sex as well as touching an intimate part of another person against that person's will and for the purpose of sexual arousal, gratification or abuse.

Rape

Rape is a form of sexual misconduct and is non-consensual sexual intercourse that may also involve the use of threat of force, violence, or immediate and unlawful bodily injury or threats of future retaliation and duress. Any sexual penetration, however slight, is sufficient to constitute rape. Sexual acts including intercourse are considered non-consensual when a person is incapable of giving consent because s/he is incapacitated from alcohol and/or drugs, is under 18 years old, or if a mental disorder or developmental or physical disability renders the person incapable of giving consent. The respondent's relationship to the person (such as family member, spouse, friend, acquaintance or stranger) is irrelevant.

Acquaintance Rape

Acquaintance Rape is a form of sexual misconduct committed by an individual known to the victim. This includes a person the victim may have just met; i.e., at a party, introduced through a friend, or on a social networking website.

Affirmative Consent

Affirmative Consent means an informed, affirmative, conscious, voluntary, and mutual agreement to engage in sexual activity. It is the responsibility of each person involved in the sexual activity to ensure that s/he has the affirmative consent of the other participant(s) to engage in the sexual activity. Lack of protest or resistance does not mean consent nor does silence mean consent. Affirmative consent must be voluntary, and given without coercion, force, threats or intimidation.

The existence of a dating or social relationship between those involved, or the fact of past sexual activities between them, should never by itself be assumed to be an indicator of affirmative consent. A request for someone to use a condom or birth control does not, in and of itself, constitute affirmative consent.

Affirmative consent can be withdrawn or revoked. Consent to one form of sexual activity (or sexual act) does not constitute consent to other forms of sexual activity. Consent given to sexual activity on one occasion does not constitute consent on another occasion. There must always be mutual and affirmative consent to engage in sexual activity. Consent must be ongoing throughout a sexual activity and can be revoked at any time, including after penetration. Once consent is withdrawn or revoked, the sexual activity must stop immediately.

- A person who is incapacitated cannot give affirmative consent.
- A person is unable to consent when s/he is asleep, unconscious or is incapacitated due to the influence of drugs, alcohol, or medication so that s/he could not understand the fact, nature or extent of the sexual activity.
- A person is incapacitated if s/he lacks the physical and/or mental ability to make informed, rational decisions. Whether an intoxicated person (as a result of using alcohol or other drugs) is incapacitated depends on the extent to which the alcohol or other drugs impact the person's decision-making capacity, awareness of consequences, and ability to make fully informed judgments.
- A person's own intoxication or incapacitation from drugs or alcohol does not diminish that person's responsibility to obtain affirmative consent before engaging in sexual activity.
- A person with a medical or mental disability may also lack the capacity to give consent.
- Sexual activity with a minor (a person under 18 years old) is not consensual, because a minor is considered incapable of giving legal consent due to age.

It shall not be a valid excuse that a person affirmatively consented to the sexual activity if the respondent knew or reasonably should have known that the person was unable to consent to the sexual activity under any of the following circumstances:

- The person was asleep or unconscious;
- The person was incapacitated due to the influence of drugs, alcohol or medication, so that the person could not understand the fact, nature or extent of the sexual activity;
- The person was unable to communicate due to a mental or physical condition
- It shall not be a valid excuse that the respondent believed that the person consented to the sexual activity under either of the following circumstances:
 - The respondent's belief in affirmative consent arose from the intoxication or recklessness of the respondent;
 - The respondent did not take reasonable steps, in the circumstances known to the respondent at the time, to ascertain whether the person affirmatively consented.

Consensual Relationships

Consensual relationship means a sexual or romantic relationship between two persons who voluntarily enter into such a relationship. While sexual and/or romantic relationships between members of the University community may begin as consensual, they may evolve into situations that lead to discrimination, harassment, retaliation, sexual misconduct, dating or domestic violence, or stalking.

A University employee shall not enter into a consensual relationship with a student or employee over whom s/he exercises direct or otherwise significant academic, administrative, supervisory, evaluative, counseling, or extracurricular authority. In the event such a relationship already exists, each campus shall develop a procedure to reassign such authority to avoid violations of policy.

This prohibition does not limit the right of an employee to make a recommendation on the personnel matters concerning a family or household member where the right to make recommendations on such personnel matters is explicitly provided for in the applicable collective bargaining agreement or MPP/confidential personnel plan.

Domestic Violence

Domestic Violence is abuse committed against someone who is a current or former spouse, current or former cohabitant, someone with whom the abuser has a child, someone with whom the abuser has or had a dating or engagement relationship, or a person similarly situated under California domestic or family violence law. Cohabitant means two unrelated persons living together for a substantial period of time, resulting in some permanency of relationship. It does not include roommates who do not have a romantic, intimate, or sexual relationship. Factors that may determine whether persons are cohabiting include, but are not limited to:

- (1) sexual relations between the parties while sharing the same living quarters,
- (2) sharing of income or expenses,
- (3) joint use or ownership of property,
- (4) whether the parties hold themselves out as husband and wife,
- (5) the continuity of the relationship, and
- (6) the length of the relationship.

For purposes of this definition, "abuse" means intentionally or recklessly causing or attempting to cause bodily injury or placing another person in reasonable apprehension of imminent serious bodily injury to himself or herself, or another. Abuse does not include non-physical, emotional distress or injury.

Dating Violence

Dating Violence is abuse committed by a person who is or has been in a social or dating relationship of a romantic or intimate nature with the victim. This may include someone the victim just met; i.e., at a party, introduced through a friend, or on a social networking website. For purposes of this definition, "abuse" means intentionally or recklessly causing or attempting to cause bodily injury or placing another person in reasonable apprehension of imminent serious bodily injury to himself or herself, or another. Abuse does not include non-physical, emotional distress or injury.

Stalking

Stalking means a repeated course of conduct directed at a specific person that would cause a reasonable person to fear for his/her or others' safety or to suffer substantial emotional distress. For purposes of this definition:

- Course of conduct means two or more acts, including but not limited to, acts in which the stalker directly, indirectly, or through third parties, by any action, method, device, or means, follows, monitors, observes, surveils, threatens, or communicates to or about a person, or interferes with a person's property;
- Reasonable person means a reasonable person under similar circumstances and with the same protected status as the complainant;
- Substantial emotional distress means significant mental suffering or anguish that may, but does not necessarily, require medical or other professional treatment or counseling.

Note: See further information in Cal State East Bay's sexual violence prevention and education statement, Title IX Notice of Nondiscrimination (which includes facts and myths about sexual violence), and Victim's Rights and Options Notice, at <http://www.csueastbay.edu/af/departments/risk-management/files/docs/eo-1095-attachment-b-myths-and-facts-2015.pdf>.

Whom to Contact if You Have Complaints, Questions or Concerns

Title IX requires the university to designate a Title IX Coordinator to monitor and oversee overall Title IX compliance. Your campus Title IX Coordinator is available to explain and discuss your right to file a criminal complaint (for example, in cases of sexual misconduct); the university's complaint process, including the investigation process; how confidentiality is handled; available resources, both on and off campus; and other related matters. *If you are in the midst of an emergency, please call the police immediately by dialing 9-1-1.*

Title IX requires the university to adopt and publish complaint procedures that provide for prompt and equitable resolution of gender discrimination complaints, including sexual harassment and misconduct, as well as provide training, education and preventive measures related to sex discrimination. CSU Executive Order 1097 (<http://www.calstate.edu/EO/EO-1097-rev-10-5-16.pdf>) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made by students against the CSU, a CSU employee, other CSU students or a third party.

Except as provided below under Confidentiality and Sexual Misconduct, Dating Violence, Domestic Violence, and Stalking, **any** University employee who knows or has reason to know of allegations or acts that violate University policy shall promptly inform the Title IX Coordinator. These employees are required to disclose all information including the names of the parties, **even where the person has requested that his/her name remain confidential**. The Title IX Coordinator will determine whether confidentiality is appropriate given the circumstances of each such incident. (See confidential reporting options outlined in this chapter.)

Regardless of whether an alleged victim of gender discrimination ultimately files a complaint, if the campus knows or has reason to know about possible sexual discrimination, harassment or misconduct, it must review the matter to determine if an investigation is warranted. The campus must then take appropriate steps to eliminate any gender discrimination/harassment/misconduct, prevent its recurrence, and remedy its effects.

- CSUEB Title IX Coordinator:** Terri Labeaux 510-885-4918 title9@csueastbay.edu
25800 Carlos Bee Blvd. Hayward, CA 94542 Monday - Friday 8:30am - 5:00pm
- CSUEB Title IX Officer:** Nyassa Love 510-885-2743
Risk Management and Internal Control 25800 Carlos Bee Blvd. SA 4702
Hayward, CA 94542 Monday - Friday 8:30am - 5:00pm
- CSUEB Deputy Title IX Coordinators:** Bethany Hobbs-Helmus, Intercollegiate Athletics 510-885-7624;
Rebekah Rhodes, Student Conduct, Rights, and Responsibilities 510-885-3763;
Shirley Mar, DHR Senior Investigator 510-885-4326
- University Police Lieutenant:** Omar Miakhail 510-885-3791
25800 Carlos Bee Blvd. Hayward, CA 94542
- Hayward Police Department Special Victims Unit:** 300 W. Winton Ave. Hayward, CA (510) 293-7034
Non-emergency: (510) 293-7000
- Concord Police Department :** Non-emergency: (925) 671-3220
Emergency: (925) 671-3333 from cell phone

Safety of the Campus Community is Primary

The university's primary concern is the safety of its campus community members. The use of alcohol or drugs never makes the victim at fault for gender discrimination, harassment or misconduct; therefore, victims should not be deterred from reporting incidents of sexual misconduct out of a concern that they might be disciplined for related violations of drug, alcohol or other university policies. Except in extreme circumstances, victims of sexual misconduct shall not be subject to discipline for related violations of the Student Conduct Code.

Information Regarding Campus, Criminal and Civil Consequences of Committing Acts of Sexual Violence

Individuals alleged to have committed sexual misconduct may face criminal prosecution by law enforcement and may incur penalties as a result of civil litigation. In addition, employees and students may face discipline at the university, up to including suspension or expulsion. Employees may face sanctions up to and including dismissal from employment, pursuant to established CSU policies and provisions of applicable collective bargaining unit agreements.

Students who are charged by the university with gender discrimination, harassment or misconduct will be subject to discipline, pursuant to the California State University Student Conduct Procedures (see Executive Order 1098 at <http://www.calstate.edu/EO/EO-1098-rev-6-23-15.pdf> or any successor executive order) and will be subject to appropriate sanctions. In addition, during any investigation, the university may implement interim measures in order to maintain a safe and non-discriminatory educational environment.

Note: Such measures may include but not be limited to:

- *immediate interim suspension from the university;*
- *a required move from university-owned or affiliated housing;*
- *adjustments to course schedule; and/or*
- *prohibition from contact with parties involved in the alleged incident.*

Confidentiality and Sexual Misconduct, Dating Violence, Domestic Violence and Stalking

The University encourages victims of sexual misconduct, dating violence, domestic violence, or stalking (collectively sexual misconduct) to talk to someone about what happened - so they can get the support they need, and so the University can respond appropriately.

PRIVILEGED AND CONFIDENTIAL COMMUNICATIONS

Physicians, Psychotherapists, Professional Licensed Counselors, Licensed Clinical Social Workers, and Clergy

Physicians, psychotherapists, professional, licensed counselors, licensed clinical social workers, and clergy who work or volunteer on or off campus, acting solely in those roles or capacities as part of their employment, and who provide medical or mental health treatment or counseling (and those who act under their supervision, including all individuals who work or volunteer in their centers and offices) including those who act in that role under their supervision) may not report any information about an incident of sexual misconduct to anyone else at the University, including the Title IX Coordinator, without the victim's consent. A victim can seek assistance and support from physicians, psychotherapists, professional, licensed counselors, licensed clinical social workers, and clergy without triggering a

University investigation that could reveal the victim's identity or the fact of the victim's disclosure. However, see limited exceptions below regarding when health care practitioners must report to local law enforcement agencies. Health care practitioners should explain these limited exceptions to victims, if applicable.

Sexual Assault and Domestic Violence Counselors and Advocates

Sexual assault and domestic violence counselors and advocates who work or volunteer on or off campus in sexual assault centers, victim advocacy offices, women's centers, and health centers (including those who act in that role under their supervision, along with non-professional counselors or advocates who or volunteer in sexual assault centers, victim advocacy offices, women's centers, gender equity centers, or health centers) all individuals who work or volunteer in these centers and offices, as well as non-professional counselors or advocates, and those who act in that role under their supervision) may talk to a victim without revealing any information about the victim and the incident of sexual misconduct to anyone else at the University, including the Title IX Coordinator, without the victim's consent. A victim can seek assistance and support from these counselors and advocates without triggering a University investigation that could reveal his/her identity or that a victim disclosed an incident to them. However, see limited exceptions below regarding when sexual assault and domestic violence counselors and advocates must report to local law enforcement agencies. Counselors and advocates should explain these limited exceptions to victims, if applicable.

The University will be unable to conduct an investigation into a particular incident or pursue disciplinary action against a perpetrator if a victim chooses to:

- (1) speak only to a physician, professional licensed counselor, licensed clinical social worker, clergy member, sexual assault counselor, domestic violence counselor or advocate; and
- (2) maintain complete confidentiality.

Even so, these individuals will assist victims in receiving other necessary protection and support, such as victim advocacy, disability, medical/health or mental health services, or legal services, and will advise victims regarding their right to file a Title IX complaint with the University and a separate complaint with local or University police. If a victim insists on confidentiality, such professionals, counselors and advocates will likely not be able to assist the victim with: University academic support or accommodations; changes to University-based living or working schedules; or adjustments to course schedules. A victim who at first requests confidentiality may later decide to file a complaint with the University or report the incident to the police, and thus have the incident fully investigated. These counselors and advocates can provide victims with that assistance if requested by the victim. These counselors and advocates will also explain that Title IX includes protections against retaliation, and that the University will not only take steps to prevent retaliation when it knows or reasonably should know of possible retaliation, but will also take strong responsive action if it occurs.

EXCEPTIONS:

Under California law, any health practitioner employed in a health facility, clinic, physician's office, or local or state public health department or clinic is required to make a report to local law enforcement if he or she provides medical services for a *physical condition* to a patient/victim who he or she knows or reasonably suspects is suffering from:

- (1) a wound or physical injury inflicted by a firearm; or
- (2) any wound or other physical injury inflicted upon a victim where the injury is the result of assaultive or abusive conduct (including sexual misconduct, domestic violence, and dating violence).

This exception does *not* apply to sexual assault and domestic violence counselors and advocates. Health care practitioners should explain this limited exception to victims, if applicable.

Additionally, under California law, *all* professionals described above (physicians, psychotherapists, professional counselors, licensed clinical social workers, clergy, and sexual assault and domestic violence counselors and advocates) are mandatory child abuse and neglect reporters, and are required to report incidents involving victims under 18 years of age to local law enforcement. These professionals will explain this limited exception to victims, if applicable.

Finally, some or all of these professionals may also have reporting obligations under California law to:

- (1) local law enforcement in cases involving threats of immediate or imminent harm to self or others where disclosure of the information is necessary to prevent the threatened danger; or
- (2) to the court if compelled by court order or subpoena in a criminal proceeding related to the Sexual Violence incident.

If applicable, these professionals will explain this limited exception to victims.

Reporting to University Police or University Employees

REPORTING TO UNIVERSITY OR LOCAL POLICE

If a victim reports to local or University Police about sexual misconduct, violence, the police are required to notify victims that their names will become a matter of public record unless confidentiality is requested. If a victim requests that his/her identity be kept confidential, his/her name will not become a matter of public record and the police will not report the victim's identity to anyone else at the University, including the Title IX Coordinator. University Police will, however, report the facts of the incident itself to the Title IX Coordinator being sure not to reveal to the Title IX Coordinator victim names/identities or compromise their own criminal investigation. The University is required by the federal Clery Act to report certain types of crimes (including certain sex offenses) in statistical reports. However, while the University will report the type of incident in the annual crime statistics report known as the Annual Security Report, victim names/identities will not be revealed.

REPORTING TO THE TITLE IX COORDINATOR AND OTHER UNIVERSITY EMPLOYEES

Most University employees have a duty to report sexual misconduct violence incidents when they are on notice of it. When a victim tells the Title IX Coordinator or another University employee about a sexual misconduct violence incident, the victim has the right to expect the University to take immediate and appropriate steps to investigate what happened and to resolve the matter promptly and equitably. In all cases, the University strongly encourages victims to report sexual misconduct violence directly to the campus Title IX Coordinator.

As detailed above, in the Privileged and Confidential Communications section of this policy, all University employees except physicians, licensed professional counselors, licensed clinical social workers, sexual assault counselors and advocates, must report to the Title IX Coordinator all relevant details about any sexual violence incidents of which they become aware. The University will need to determine what happened - and will need to know the names of the victim(s) and the perpetrator(s), any witnesses, and any other relevant facts, including the date, time and specific location of the incident.

To the extent possible, information reported to the Title IX Coordinator or other University employees will be shared only with individuals responsible for handling the University's response to the incident. The University will protect the privacy of individuals involved in a sexual misconduct violence incident except as otherwise required by law or University policy. A sexual misconduct violence report may result in the gathering of extremely sensitive information about individuals in the campus community. While such information is considered confidential, University policy regarding access to public records and disclosure of personal information may require disclosure of certain information concerning a report of sexual misconduct violence. In such cases, efforts will be made to redact the records, as appropriate, in order to protect the victim's identity and privacy and the privacy of other involved individuals. Except as detailed in the section on Privileged and Confidential Communications above, no University employee, including the Title IX Coordinator, should disclose the victim's identity to the police without the victim's consent or unless the victim has also reported the incident to the police.

If a victim requests of the Title IX Coordinator or another University employee that his/her identity remain completely confidential, the Title IX Coordinator will explain that the University cannot always honor that request and guarantee complete confidentiality. If a victim wishes to remain confidential or request that no investigation be conducted or disciplinary action taken, the University must weigh that request against the University's obligation to provide a safe, non-discriminatory environment for all students, employees, and third parties, including the victim. Under those circumstances, the Title IX Coordinator will determine whether the victim's request for complete confidentiality and/or no investigation can be honored under the facts and circumstances of the particular case, including whether the University has a legal obligation to report the incident, conduct an investigation or take other appropriate steps. Without information about a victim's identity, the University's ability to meaningfully investigate the incident and pursue disciplinary action against the perpetrator may be severely limited. See Executive Order 1095 for further details around confidential reporting, and other related matters (<http://www.calstate.edu/EO/EO-1095.pdf>).

Additional Resources

- Cal State East Bay's sexual misconduct violence prevention and education statement, which includes facts and myths about sexual misconduct violence:
<http://www.csueastbay.edu/af/departments/risk-management/risk/files/docs/eo-1095-attachment-c.pdf>
- U.S. Department of Education, regional office: Office for Civil Rights, 50 United Nations Plaza San Francisco, CA 94102 (415) 486-5555, TDD (877) 521-2172
- U.S. Department of Education, national office: Office for Civil Rights (800) 872-5327
- Know Your Rights about Title IX <http://www2.ed.gov/about/offices/list/ocr/docs/title-ix-rights-201104.html>

- California Coalition Against Sexual Assault (<http://calcasa.org/>) 1215 K. Street, Suite 1850, Sacramento, CA 95814, (916) 446-2520
- Domestic and Family Violence, Office of Justice Programs, United States Department of Justice
- National Institute of Justice: Intimate Partner Violence, Office of Justice Programs, United States Department of Justice
- National Domestic Violence Hotline: 1-800-799-SAFE (7233)
- Office of Violence against Women, United States Department of Justice
- Centers for Disease Control and Prevention: Intimate Partner Violence
- Defending Childhood, United States Department of Justice
- Local Police:

Oakland Police Department Non-emergency: (510) 777-3333 Emergency: (510) 777-3211 from cell phone

BART Police Non-emergency: 1-877-679-7000

Alameda County Sheriff Emergency Services Dispatch: (510) 667-7721

East Bay Regional Parks Police Department Non-emergency, 24-hour: (510) 881-1833
Emergency: (510) 881-1121 from cell phone

Additional Information Concerning Sexual Violence

See further information in Cal State East Bay's sexual violence prevention and education statement, Title IX Notice of Nondiscrimination (which includes facts and myths about sexual violence), and Victim's Rights and Options Notice, at <http://www.csueastbay.edu/af/departments/risk-management/risk/files/docs/eo-1095-attachment-c.pdf>

Student Rights Concerning Data Integrity Policy

Rights in the Case of Data Loss

In the case of data loss as a result of the failure of the university or third-party vendors, i.e., a loss that is not the responsibility of students or faculty, accommodations will be made to mitigate negative consequences that may result. Examples of system failures include:

- unscheduled downtime (a "crash"), where an assignment is due between the time of the crash and the last system backup or the last possible restoration point in the case of a failed backup. This could occur in the LMS or in a computer lab;
- unacceptable patterns of slowness/crash/partial recovery/full recovery occurring when assignments are due or online exams/quizzes/tests are underway, making it impossible for students to meet deadlines;

- third-party service interruption or stoppage where students are unable to complete assignments or work by deadlines; and
- power outages in computer labs during exams.

When possible, Information Technology will notify the university community of system failures, but not all will be immediately visible to a faculty member. If no Campus Announcement has been issued, faculty should verify any student-reported loss with the Information Technology Service Desk to determine if s/he should implement this policy.

It is understood that there are conditions that are beyond the control of an individual. As a result, faculty are advised to provide students with alternate means of submission in event of an application or browser failure or some other condition, and to include a description of these alternate means in their syllabi. Should data loss occur due to a student's not fulfilling his/her responsibility to back up data appropriately, however, the student is responsible for that failure.

Policy Statements

When an institutional data loss or loss of service is verified by Information Technology Services (ITS) and noted on the learning management site (LMS), students will be allowed to resubmit coursework data and re-attempt tests within 72 hours of the implementation of data redundancy measures and the restoration of service by the institution as verified by ITS. If the window for completing coursework or tests is shorter than 72 hours, a new window (start-stop times) can be created by the faculty member, but a time frame of 72 hours takes into account the possibility that loss and restoration might occur over a weekend period.

For required third-party online sites, such as homework sites associated with publishers, the faculty member will post the method for notification of outages or malfunctions with his/her syllabus on Blackboard. Students shall be given at least 72 hours after restoration of service to complete assignments.

When data loss takes the form of a university computer lab failing during an examination period (for example, a blackout occurs during a midterm), the faculty member shall provide an appropriate accommodation for the resumption of the exam.

Beyond these conditions, students bear the sole responsibility for backing up their coursework data and ensuring data redundancy in the event of non-institutional data loss.

In addition, to providing statements in their syllabi about accommodations in case of data loss, faculty should also provide a statement to explain students' responsibilities in regards to backing up their data. Suggesting phrasing is as follows:

"Accommodations will be made for systems failures beyond students' control. These include:

[list accommodation information here] "

Remember!

- Accommodations will not be made for failure to complete an assignment or project because data has not been backed up.
- The "golden rule" for data is that it does not exist unless you back up your data in two or more places on at least two different types of media and make sure that the backup is not in a temporary file that will disappear when you close the program or shut down your compute

Student Publications

Student publications and the student press are valuable aids in establishing and maintaining an atmosphere of free and responsible discussion and intellectual exploration on the campus. Students and faculty who produce student publications have the responsibility to establish and adhere to standards of responsible journalism. While student publications and the student press operate with limited external control, the editorial freedom of student editors and managers entails corollary responsibilities to be governed by the concerns of responsible journalism, such as evidence of libel, indecency, undocumented allegations, attacks on personal integrity, and the techniques of harassment and innuendo.

Student Participation in Institutional Government

Students are free to elect peers to serve and represent them in university government as members of the student body. Students who meet eligibility criteria are appointed to various standing committees by the administration and faculty upon the recommendation of the Associated Students Board of Directors. The role of student government is explicitly defined in the California Education Code and CSU policies. Copies of these regulations can be obtained in the office of the Associate Vice President, Student Affairs (Student Services and Administration Building, 4th Floor).

Whistleblower Protection Act

Under the California Whistleblower Protection act, any employee or applicant for employment may make a protected disclosure of an improper government activity or any condition that may significantly threaten the health or safety of employees or the public to the State Auditor, CSU or CSUEB. The procedure for making such protected disclosures is set forth in the document titled "Reporting Procedures for Protected Disclosure of Improper Governmental Activities and/or Significant Threats to Health or Safety" (Executive Order 929) and can be viewed or downloaded at: <http://www.calstate.edu/eo/EO-929.pdf>. The CSUEB administrator responsible for receiving and investigating such disclosures is the Director of Equity and Diversity, Risk Management and Internal Control. In addition, under the Act, employees and applicants for employment are protected from retaliation from making such protected disclosures. The procedure for making a complaint of retaliation is set forth in the document titled "Revised Complaint Procedure for Allegations of Retaliation for Disclosure under the California Whistleblower Protection Act" (Executive Order 822) and can be viewed or downloaded at:<http://www.calstate.edu/eo/EO-822.pdf>.

As with protected disclosures, Risk Management and Internal Control is responsible for receiving and investigating retaliation complaints.

Student Complaint Procedure

The California State University takes complaints and concerns regarding the institution very seriously. If you have a complaint regarding the CSU, you may present your complaint as follows:

1. If your complaint concerns CSU's compliance with academic program quality and accrediting standards, you may present your complaint to the Western Association of Schools and Colleges (WASC) at: <http://www.wascsenior.org/comments>. WASC is the agency that accredits the CSU's academic program.
2. If your complaint concerns an alleged violation by CSU of a state law, including laws prohibiting fraud and false advertising, you may present your claim to the campus president or Ms. Maggie Graney, Director for Compliance and Internal Control. See Procedure for Student Complaints- Executive Order No. 1063 for details regarding the complaint requirements and complaint process: <http://www.calstate.edu/eo/eo-1063.html>. The president or designee will provide guidance on the appropriate campus process for addressing your particular issue.

If you believe that your complaint warrants further attention after you have exhausted all the steps outlined by the president or designee, or by WASC, you may file an appeal with the Associate Vice Chancellor, Academic Affairs at the CSU Chancellor's Office. This procedure should not be construed to limit any right that you may have to take civil or criminal legal action to resolve your complaint.

Resolution of Disputes - Grade Appeal

If a student believes they have received an inappropriate grade or have been treated in an unfair way and they cannot resolve the matter informally with the instructor and department chair, the student should present their case to the Presidential Appointee to the Grade Appeal and Academic Grievance Committee (Academic Programs and Graduate Studies; Tel. 510-885-3716), no later than one quarter after the disputed grade was recorded. The Grade Appeal Committee may authorize a change of grade under certain circumstances. If the instructor of record does not assign a grade to an individual student, the appropriate failing grade for nonattendance ("WU" or "NC") is automatically recorded by Enrollment Management. A student may petition the Grade Appeal Committee if they believe the instructor should have assigned an academic grade.

Student Conduct & Responsibilities

Standards for Student Conduct: Title 5 California Code of Regulations, § 41301.

Campus Community Values

The University is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the campus community should choose behaviors that contribute toward this end. Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the campus community, and contribute positively to student and university life.

Grounds for Student Discipline

Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences.

The following are the grounds upon which student discipline can be based:

1. Dishonesty, including:

- Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
- Furnishing false information to a University official, faculty member, or campus office.
- Forgery, alteration, or misuse of a University document, key, or identification instrument.
- Misrepresenting one's self to be an authorized agent of the University or one of its auxiliaries.

2. Unauthorized entry into, presence in, use of, or misuse of University property.

3. Willful, material and substantial disruption or obstruction of a University-related activity, or any on-campus activity.

4. Participating in an activity that substantially and materially disrupts the normal operations of the University, or infringes on the rights of members of the University community.

5. Willful, material and substantial obstruction of the free flow of pedestrian or other traffic, on or leading to campus property or an off-campus University related activity.

6. Disorderly, lewd, indecent, or obscene behavior at a University related activity, or directed toward a member of the University community.

7. Conduct that threatens or endangers the health or safety of any person within or related to the University community, including physical abuse, threats, intimidation, harassment, or sexual misconduct.

8. Hazing or conspiracy to haze. Hazing is defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury to any former, current, or prospective student of any school, community college, college, university or other educational institution in this state (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental harm, to any former, current, or prospective student of any school, community college, college, university or other educational institution. The term "hazing" does not include customary athletic events or school sanctioned events.

Note: Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.

9. Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and University regulations) or the misuse of legal pharmaceutical drugs.
10. Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and University regulations), or public intoxication while on campus or at a University related activity.
11. Theft of property or services from the University community, or misappropriation of University resources.
12. Unauthorized destruction or damage to University property or other property in the University community.
13. Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the campus president) on campus or at a University related activity.
14. Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
15. Misuse of computer facilities or resources, including:
 - Unauthorized entry into a file, for any purpose.
 - Unauthorized transfer of a file.
 - Use of another's identification or password.
 - Use of computing facilities, campus network, or other resources to interfere with the work of another member of the University community.
 - Use of computing facilities and resources to send obscene or intimidating and abusive messages.
 - Use of computing facilities and resources to interfere with normal University operations.
 - Use of computing facilities and resources in violation of copyright laws.
 - Violation of a campus computer use policy.
16. Violation of any published University policy, rule, regulation or presidential order.
17. Failure to comply with directions or interference with, any University official or any public safety officer while acting in the performance of his/her duties.
18. Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or wellbeing of members of the University community, to property within the University community or poses a significant threat of disruption or interference with University operations.
19. Violation of the Student Conduct Procedures, including:
 - Falsification, distortion, or misrepresentation of information related to a student discipline matter.
 - Disruption or interference with the orderly progress of a student discipline proceeding.
 - Initiation of a student discipline proceeding in bad faith.

- Attempting to discourage another from participating in the student discipline matter.
 - Attempting to influence the impartiality of any participant in a student discipline matter.
 - Verbal or physical harassment or intimidation of any participant in a student discipline matter.
 - Failure to comply with the sanction(s) imposed under a student discipline proceeding.
20. Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

Procedures for Enforcing This Code

The Chancellor shall adopt procedures to ensure students are afforded appropriate notice and an opportunity to be heard before the University imposes any sanction for a violation of the Student Conduct Code.

Note: At the time of publication, such procedures are set forth in California State University Executive Order 1098 (Revised June 23, 2015), available at <http://calstate.edu/eo/EO-1098-rev-6-23-15.html>

Application of This Code

Sanctions for the conduct listed above can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. Conduct that threatens the safety or security of the campus community, or substantially disrupts the functions or operation of the University is within the jurisdiction of this Article regardless of whether it occurs on or off campus. Nothing in this Code may conflict with Education Code Section 66301 that prohibits disciplinary action against students based on behavior protected by the First Amendment.

Title 5, California Code of Regulations, § 41302. Disposition of Fees: Campus Emergency; Interim Suspension

The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

Academic Dishonesty

Academic Dishonesty includes, but is not limited to:

- *cheating*, which includes possessing unauthorized sources of information during examinations, copying the work of others, permitting others to copy your work, submitting work done by others, completing assignments for others, altering work after grading and subsequently submitting it for re-grading, submitting the same work for two or more classes without the permission of all instructors involved, or retaining materials that you have been instructed to return to your instructor;
- *plagiarism*, which includes taking the words, ideas, or substance of another and either copying or paraphrasing the work without giving credit to the source through appropriate use of footnotes, quotation marks, or reference citations;
- *providing materials to another* with knowledge they will be improperly used;
- *possessing another's work* without permission;
- *selling, purchasing, or trading materials* for class assignments (includes purchasing term papers via the World Wide Web);
- *altering the work* of another;
- *knowingly furnishing false* or incomplete academic information;
- *altering documents* that make up part of the student record;
- *forging signatures* or falsifying information on any official academic document;
- *inventing data* or falsifying an account of the method through which data was generated.

Evidence of Dishonesty

Faculty members are expected to instill in their students a respect for integrity and a desire to behave honestly. Deception for individual gain is an offense against the members of the university community. To this end, faculty will take measures to discourage dishonesty, adjust grades appropriately if dishonesty is discovered, and recommend that additional administrative sanctions be considered. Grading policies are the exclusive prerogative of faculty. Non-academic administrative sanctions are the province of the Director or the Office of Student Conduct, Rights and Responsibilities. Telephone: (510) 885-3763.

If there is evidence of dishonesty:

- involving cheating: the student should be informed promptly, in private if possible, that he/she is suspected of cheating. If an exam is in progress, unauthorized materials should be confiscated, and the student allowed to finish. If relevant, the names of students in adjoining seats should be noted.
- involving plagiarism: your instructor should assemble documentation and notify you promptly in private.

Whenever dishonesty occurs, your instructor will take appropriate action and file an "Academic Dishonesty Incident Report" detailing the infraction and the action taken. The report will be filed in the Academic Affairs Office, per Executive Order 1073 with the Office of Student Conduct, Rights and

Responsibilities, and you will receive a copy. The report will remain on file with the Academic Affairs Office for five years or until you graduate, whichever comes first.

Depending on the circumstances, you may: (a) be warned; (b) be required to resubmit work or retake an exam under specified conditions and with a possible grade penalty; (c) have your grade adjusted for the assignment; or (d) have your grade adjusted in the course, including assignment of an "F" at the discretion of the faculty. If the course grade is adjusted, it is not subject to Grade Forgiveness. See below for further administrative consequences.

You may appeal an instructor's action to the Grade Appeal Committee (see above). Your appeal of an instructor's academic sanction is governed by the "Grade Appeal and Grievance Document."

The instructor may also request that action be taken by the Office of Student Conduct, Rights and Responsibilities. (In any instance of academic dishonesty, however, whereby an academic sanction is imposed, the instructor will file an "Academic Dishonesty Incident Report." See three paragraphs above.) At the discretion of the Office of Student Conduct, Rights and Responsibilities, administrative sanctions such as warning, probation, suspension, or expulsion may be imposed. As prescribed in Executive Order 1043, Article V. Sanctions, paragraph E entitled Record Discipline, a record of disciplinary probation or suspension is entered on a student's transcript, with beginning and end date, for the duration of the sanction. A record of expulsion or suspension for one academic year or more shall note the effective date of discipline and remains on the transcript permanently, without exception. (If an appeal to the Grade Appeal Committee regarding an academic sanction imposed by the instructor is pending, action by the Office of Student Conduct, Rights and Responsibilities will be postponed until after the adjudication of the appeal.)

The complete text of Title 5, section 41301 of the California Code of Regulations and of Chancellor's Executive Order 1073 can be accessed on the Office of Student Conduct, Rights and Responsibilities website.

For Academic Dishonesty defined refer to the Glossary on the left navigation pane of this catalog.

Civil & Criminal Penalties for Violation of Federal Copyrights Law

Anyone who is found to be liable for copyright infringement may be ordered to pay either actual damages suffered as a result of the infringement along with any profits of the infringer attributable to the infringement that are not already taken into account in computing the actual damages, or "statutory" damages between \$750 and \$30,000 per work infringed. In the case of a "willful" infringement, a court may award up to \$150,000 per work infringed. (See 17 U.S.C. §504.) Courts also have discretion to award costs and attorneys' fees to the prevailing party. (See 17 U.S.C. §505.) Willful copyright infringement can also result in criminal penalties, including imprisonment and fines. (See 17 U.S.C. §506 and 18 U.S.C. §2319)

Policies, Standards and Procedures for Use of Alcohol and Other Drugs

The possession and/or consumption of alcoholic beverages by anyone under 21 years of age is prohibited at all times on campus, and is subject to the penalties imposed by state law and university policies.

Use of illicit drugs (including performance enhancing substances such as anabolic steroids) is forbidden.

Policy Violation and Sanctions

In the Workplace

Any faculty, staff, administrator or other employee who violates the policy on alcohol and other drugs shall be subject to corrective or disciplinary action up to, and including the possibility of dismissal, in accordance with appropriate collective bargaining agreements, CSU policies and state and federal law. At the discretion of the university, employees found to be in violation of university policy may be required to participate in a substance abuse program, employee assistance program, or other forms of counseling.

Students and Student Organizations

Students and/or student organizations who are alleged to have violated the policy on alcohol and other drugs will be required to meet with the Office of Student Conduct, Rights and Responsibilities. Corrective and educational sanctions will be assigned if it is determined that a violation has occurred.

- Possible sanctions for individual students:
 1. Participation in an alcohol or other drug education program;
 2. Educational requirements;
 3. Disciplinary probation;
 4. Restitution for damages;
 5. Suspension;
 6. Expulsion.
- Possible sanctions for student groups/organizations:
 1. Social probation for a specified period of time;
 2. Restitution for damages;
 3. Freezing of funds, if any are available;
 4. Report of violations to the national headquarters or offices of the organizations if such exist;
 5. Removal of officers from office;
 6. Loss of university recognition and access to campus support services.

Alcohol and Other Drugs Risks and Resources

There are many documented risks associated with alcohol and other drug abuse affecting individuals, families and friends. Alcohol and other drug abuse can lead to serious health and social problems, including short and long-term effects on the body and mind. Additionally, alcohol and other drug abuse can affect academic, athletic, work performance, and can lead to violent or destructive behaviors. There is also a strong relationship between alcohol and other drug abuse and at-risk behaviors.

Alcohol and other drug programs may be requested to supplement academic courses, educate student clubs/organizations, and to provide outreach to the campus community. To request a program, please complete the online form at: <http://www20.csueastbay.edu/students/campus-life/shcs/health-ed/preso-request-form.html>.

CSUEB Campus and Community Resources

For Students: Student Health and Counseling Services (SHS): 510-885-3735

For Faculty and Staff: Employee Assistance Program (EAP): 1-800-367-7474

Assessment and Referral: 1-800-486-1652

National Alcohol and Drug Treatment Referral: 1-800-454-8966

Alcoholics Anonymous Meetings: East Bay Central Office Directory, 510-839-8900 (24 hrs/day)

For additional information, including the complete Alcohol, Tobacco and Other Drugs Policy and list of community resources, please visit the ATOD website.

Alcohol, Tobacco and Other Drugs Advisory Council

The California State University, East Bay Alcohol, Tobacco and Other Drugs (ATOD) Advisory Council was established fall 2001 in response to the Chancellor's directive that CSU campuses provide special attention to the development of alcohol, tobacco and other drugs policies and prevention programs. The ATOD Council includes representation from CSUEB students, staff, faculty and the community and is divided into five subcommittees:

- Policy
- Assessment
- Education and Prevention
- Community/Treatment
- Funding

The ATOD Advisory Council strives to:

- Educate the campus community about alcohol, tobacco, and other drugs
- Prevent and reduce problems associated with alcohol, tobacco, and other drugs use by CSUEB students, faculty, and staff
- Decrease the amount of high risk drinking behaviors and the potential harm caused by alcohol
- Decrease the amount of drugs usage and the potential harm caused by such usage

ATOD Advisory Council Subcommittee Goals:

- The Policy Subcommittee updates and monitors compliance with university alcohol, tobacco, and other drugs policies. In addition, the subcommittee ensures the dissemination of the CSU East Bay alcohol, tobacco, and other drugs policy.
- The Assessment Subcommittee institutes a process to regularly assess alcohol, tobacco, and other drugs abuse prevention efforts.

- The Education & Prevention Subcommittee educates the campus community regarding policies and issues related to alcohol, tobacco, and other drugs use.
- The Community & Treatment Subcommittee collaborates with the campus and surrounding community to ensure access to treatment and other related resources.
- The Funding Subcommittee ensures adequate funding for campus alcohol and other drugs abuse prevention activities.

CSU Biennial Alcohol Policy Report 2013-2015

Data Integrity Policy

Student, Faculty, and University Responsibilities to Ensure the Data Integrity of Academic Work

Purpose and Scope

The purpose of this policy is to establish the rights and responsibilities of students, faculty, and the university in regards to the loss, re-attempt, and/or resubmission of coursework data in the event of verified data or service loss. This policy applies to student and faculty interactions with academic systems or academic functions within more comprehensive systems and does not apply to administrative systems or functions.

Definitions of Data Loss

- Catastrophic data loss is defined as the absolute corruption or destruction of data without any chance of recoverability on the part of its owner through data redundancy measures.
- Data redundancy measures refer to the means and methods for saving and restoring copies of data prior to the point of its absolute corruption or destruction. This is more commonly known as making a "backup" of data.
- Service loss is defined as the loss of services that interrupt and prevent the normal flow of academic work.
- Examples of such services include the Learning Management System (LMS), other systems through which assignments are digitally submitted (for example, network drives), data housed on third-party applications such as Google, VoiceThread, or Pearson, or software provided by companies such as Wordpress.

Coursework Data

Coursework data is defined as digital products, materials, and works created, edited, and completed by the student or with which the student interacts as required by coursework specified by the instructor. Coursework data takes many forms, some of which include single data files (e.g. word processing files, presentation files, multimedia files), compressed archives (e.g. .zip files, .rar files), interactive coursework and assessments (e.g. online exams), and synchronous and asynchronous communication across multiple computing platforms (e.g. webinars, synchronous collaborative documents). While these examples represent a wide variety of the kinds of coursework data that may be required in a classroom, it is

understood that the pace of change and innovation in technology introduces new and updated types of coursework data that may not be listed here but are also included as part of this policy.

Responsibilities for the Prevention or Management of Data Loss

- Multiple individual users and groups are responsible for the prevention and restoration of data and service, and the mitigation of damage when irreversible loss occurs. These include: the university, third-party vendors, and end users.
 - The University
 - Data and/or service loss resulting from university systems is known as institutional data loss. The university is responsible for ensuring the integrity of services it provides, either directly, if the data resides on university servers, or indirectly, if the data resides on servers operated by third-party vendors. To minimize the impact of university systems failure, appropriate university personnel will
 - ensure that data is backed up on a regular schedule;
 - restore lost data as quickly as possible; and
 - communicate necessary information via Campus Announcements, including the appropriate requirements of this policy, and providing follow-up Campus Announcements regarding the status of services, as needed.
 - Third-party Vendors and Software
 - In the case of data or service loss by third-party vendors or the use of software not provided by the university, variations will occur depending on the stability and depth of the company providing data, services or software. Within its ability, the university will:
 - ensure that provisions related to the prevention and restoration of data and/or services are included in contracts, and also requirements that the vendor back up data regularly and notify the university when data or service loss occurs;
 - notify the third-party vendor of observable losses when noted at the university;
 - work with the third-party vendor to ensure that data is restored from the last back-up and/or that service is restored as quickly as possible;
 - ensure that the vendor provides appropriate communications to the university regarding the status of data and services; and
 - receive and interpret vendor communications and/or communicate necessary information via a Campus Announcement, invoking the appropriate requirements of this policy, as appropriate; and provide follow-up Campus Announcements regarding the status of data and services, as needed.
 - Campus Announcements should stipulate
 - the nature of the problem;
 - the actions being taken to resolve the problem; and
 - the anticipated recovery time, as soon as it is known.

While the university is indirectly responsible for working with third-party vendors and communicating appropriately to the user community, the university cannot be directly held responsible for third-party data losses. Further, should individual faculty, departments, or colleges contract with third-party vendors for data services without the knowledge, authorization, and approval of the institution, the individual,

department, or college will be responsible for ensuring data integrity and communicating with the group of users involved in those services.

- Individual Users
 - Individual users (students and faculty) are responsible for preventing data loss by making backups of coursework data. The minimum recommended number of backups is two. Examples of backup methods include: flash drives, emailing documents to self, use of a third party service such as Carbonite, and backup to external drives. Regardless of the method chosen, backups should be conducted regularly and often, and individuals should "save" their work frequently throughout its creation.
 - It is also important to note that if an individual is working on a university computer (in offices, in the learning commons/library, or elsewhere on campus), the individual is responsible for making appropriate back-ups and saving often to ensure data integrity. Work being created by an individual during a computer crash is the responsibility of that individual. If back-ups are made sufficiently often, no or minimal loss should occur and restoration should be simple. The exception is if the data cannot be backed up regularly, e.g., during the taking of a test in BlackBoard.

Also, see: "*Student Rights Concerning Data Integrity Policy*" in this chapter.

Declassification from a Graduate Degree Program

A student may be declassified (dropped) from a graduate degree or credential program for a range of reasons, including, but not restricted to, unprofessional conduct; behavioral issues that interfere with the learning of others; failure to make progress toward the degree or program as set forth by the University and program policies; failure to meet grade requirements to maintain good standing in the program and/or University; and/or the department/program faculty determine that the student is incapable of completing degree requirements at the level expected of a graduate student in the discipline even if the GPA is above a 3.0.

The declassification request must be initiated by the major department with support from the department/program chair and college dean or designee. Requests are submitted to the Office of Academic Programs and Graduate Studies for final action and official notification to the student and the Registrar's Office. The Office of Academic Programs and Graduate Studies will also determine if the student should also be academically or administratively disqualified from the University. If the student is not disqualified from the University and wishes to continue in the University, a declassified student must formally apply to another graduate program or apply as a second baccalaureate student. (Second baccalaureate status is closed for budget reasons until further notice.) Declassified students will not be permitted to enroll through regular University or Open University in any undergraduate or graduate courses in the program or degree from which they were declassified. Unless the declassification was related to conduct issues that interfere with campus interactions, declassified students are eligible to apply to a new program and be accepted as a student by the department/program. The student must be accepted to a new program no later than three quarters after being declassified; otherwise, the student must reapply to the University.

Glossary of Terms & Definitions

Academic Dishonesty	Doctoral Degree Defined	<i>MyCSUEB</i>
Academic Grading Symbols	Domestic Violence	Non-catalog Courses
Accreditation	Drop	On-ground Course
Administrative Grading Symbols	Dual-listed	Online Course
Advancement to Candidacy	Dating Violence	Open University
Affirmative Consent	Free Electives	Option
Auditing	Grade Point Average (GPA)	Prefixes (Course, Dept, College)
Baccalaureate Degree Defined	Graduate Student	Prerequisite
Capstone Experience	Hybrid Course	Rape
Certificate Program Defined	Independent Study Course	Sexual Assault & Sexual Battery
"Classified" Status	Individual Study Course	Sexual Discrimination
Consensual Relationship	Major	Sexual Harassment
Co-requisite	Master's Degree Defined	Sexual Misconduct
Credit Equivalency	Matriculation	Stalking
Credit Hour	Minor Defined	Undergraduate Classification Level
Cross-listing	Multiple Majors	Units
		Withdrawal

Missing an important definition? Email the Editor

Academic Dishonesty

Academic Dishonesty includes, but is not limited to:

- *cheating*, which includes possessing unauthorized sources of information during examinations, copying the work of others, permitting others to copy your work, submitting work done by others, completing assignments for others, altering work after grading and subsequently submitting it for re-grading, submitting the same work for two or more classes without the permission of all instructors involved, or retaining materials that you have been instructed to return to your instructor;
- *plagiarism*, which includes taking the words, ideas, or substance of another and either copying or paraphrasing the work without giving credit to the source through appropriate use of footnotes, quotation marks, or reference citations;
- *providing materials to another* with knowledge they will be improperly used;
- *possessing another's work* without permission;
- *selling, purchasing, or trading materials* for class assignments (includes purchasing term papers via the World Wide Web);
- *altering the work* of another;
- *knowingly furnishing false* or incomplete academic information;
- *altering documents* that make up part of the student record;
- *forging signatures* or falsifying information on any official academic document;
- *inventing data* or falsifying an account of the method through which data was generated.

Academic Grading Symbols for Undergraduate Courses

Academic Grading Symbols

Academic Symbols	Definitions	Grade (Quality) Points Earned
A	Excellent	4.0
A-	Excellent	3.7
B+	Good	3.3

B	Good	3.0
B-	Good	2.7
C+	Satisfactory	2.3
C	Satisfactory	2.0
C-	Satisfactory	1.7
D+	Poor	1.3
D	Poor	1.0
F	Failing	0.0
CR	Credit	0.0
NC	No Credit	0.0

"A-F" Grading Pattern

Courses required for your major in your major department are taken in this pattern. Specific department exemptions are noted in the course description. Faculty use of "+" or "-" is optional.

Credit/No Credit and A/B/C/No Credit Grading Patterns (CR/NC and A/B/C/NC)

You may enroll in up to 60 units in credit/no credit patterns as an **undergraduate**. There are two credit/no credit patterns: (1) "CR/NC," and (2) "A/B/C/NC." Some courses are only offered in the "CR/NC" or "A/B/C/NC" patterns. You can select the "CR/NC" pattern for most other courses subject to certain restrictions. You can choose the "CR/NC" pattern during Registration until the end of the Add/Drop period. No changes to, or from, the credit/no credit pattern are permitted after the Add/Drop period. There are no exceptions to this rule. No course in your major department, regardless of course prefix, may be taken "CR/NC," unless that is the only grading pattern in the course.

Units that you earn in courses taken under these grading patterns will apply to your degree requirements as long as they are not remedial courses (courses numbered 0800 - 0999). "CR" signifies you mastered the material at the level of "C-" or higher. "NC" signifies a work level of "D+" or lower. Faculty use of "+" or "-" is optional.

Academic Grading Symbols for Graduate Courses

The academic grading symbols used for graduate courses are as follows:

Academic Grade	Standard of Work Represented	Grade (Quality) Points
A	Superior	4.0
A-	Superior	3.7
B+	Adequate	3.3
B	Adequate	3.0
B-	Adequate ₁	2.7
C+	Substandard	2.3
C	Substandard	2.0
C-	Substandard	1.7
D+	Unacceptable	1.3
D	Unacceptable	1.0
F	Failing	0.0
CR ₂	Credit	0.0
NC ₂	No Credit	0.0

¹Note that a "B-" grade, though described as "adequate," generates fewer than 3.0 grade (quality) points and must be balanced by a grade of "B+" or higher.

²These grades cannot be selected by students. They are only available in graduate courses offered exclusively on a "credit/no credit" basis.

Accreditation

Authority for decisions regarding the transfer of undergraduate credits is delegated to each California State University (CSU) campus. Most commonly, college level credits earned from an institution of higher education accredited by a regional accrediting agency are accepted for transfer to campuses of the CSU; however, authority for decisions regarding the transfer of undergraduate credits is delegated to each CSU campus.

CSU campuses may enter into course-to-course or program-to-program articulation agreements with other CSU campuses and any or all of the California Community Colleges, and other regionally accredited institutions. Established CSU and California Community College articulations may be found on www.assist.org. Students may be permitted to transfer no more than 70 semester (105 quarter) units to a CSU campus from an institution that does not offer bachelor's degrees or their equivalents, for example, community colleges. Given the university's 30-semester (45-quarter) unit residency requirement, no more than a total of 90-semester (135-quarter) units may be transferred into the University from all sources.

Administrative Grading Symbols

Administrative Grading Symbols

Administrative Grading Symbols	Definitions	Grade (Quality) Points Earned
RP	Report in Progress	0.0
I	Incomplete (Authorized)	0.0
IC	Incomplete Charged	0.0
RD	Report Delayed	0.0
W	Withdrawal	0.0
WU	Withdrawal Unauthorized	0.0

Report in Progress (RP)

The symbol "RP," Report in Progress, is used in connection with courses that extend beyond an academic term. It indicates that work is in progress, but that a final grade cannot be assigned until additional work is completed. The work is to be completed within one year, except in the case of graduate theses or dissertation. A graduate thesis or dissertation must be completed and approved within five years of the student's initial enrollment in a thesis or dissertation course. If the work is not completed within the established time limit (one year, and for graduate theses and dissertation, five years), the "RP" grade will be changed to an "F" or "NC," depending on the grading pattern of the course.

Incomplete (I)

The symbol "I", Incomplete (Authorized), indicates that (1) a discrete portion of the required coursework has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons, (2) attending a future offering of the class is not required to complete the work, and (3) the instructor believes it likely that the student will earn credit for the course upon completion of that work. Students who are currently failing a course are not eligible for an Incomplete. It is the student's responsibility to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements that must be satisfied to remove the Incomplete. A final grade is assigned when the work agreed upon has been completed and evaluated. The instructor will specify the work needed for completion which can be viewed in *MyCSUEB*.

An "I" must normally be made up within one calendar year immediately following the end of the term during which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Students may not repeat a course in which they currently have an incomplete grade.

When the required work has been completed and evaluated, the instructor will submit a change of grade form and the academic grade will be recorded. If students do not complete the work within the allowed time limit, the grade will be recorded as an "IC" (Incomplete Charged).

Incomplete Charged (IC)

The symbol "IC," Incomplete Charged, is used if the student received an authorized incomplete ("I"), but did not complete the required coursework within the allowed time limit, and the original grading pattern of the course was "A-F." The "IC" replaces the "I" and is counted as a failing grade for computing grade point average. Students may be able to receive up to two one-quarter extensions from the instructor. These extensions are for cause and must be approved by both the instructor and department chair. (Examples of cause include military service, serious health or personal problems, or instructor's leave of absence.) If students want credit for a course after an "I" has been converted to an "IC," they must re-register and pass the course.

Students can graduate with an "I" grade on their record if the course is not necessary for graduation requirements. No grade may be changed once the degree has been awarded.

Report Delayed (RD)

Students will be assigned this administrative grade for a course if the instructor notifies the Office of the Registrar that grade reports have been delayed by circumstances beyond his or her control. An example is the illness of the instructor at the end of the quarter. The instructor will replace the "RD" grade with an academic grade as soon as possible. If the instructor fails to replace it with an academic grade by the end of the following term, the grade "RD" will be converted to a "WU" or an "NC" depending on your grading pattern.

Withdrawal (W)

This administrative grade indicates that the student was permitted to withdraw from a course after the end of the Add/Drop period with the approval of the instructor and department chair. The requests and approvals shall state the reasons for withdrawal. This grade does not reflect the quality of performance and is not used in calculating grade point average. The instructor is urged to provide the student with a mechanism to evaluate their progress in the course during the first two weeks so that they can make an informed decision regarding their continued enrollment before the beginning of the withdrawal period.

Undergraduate students may withdraw from no more than 28 quarter units in the undergraduate career. Only withdrawals recorded in terms beginning with Fall 2009 are counted. Open University units are counted toward the maximum units. Students who have reached the limit on withdrawals may file an academic petition to allow additional withdrawals from courses. No limitations are placed on withdrawals by post-baccalaureate students taking classes in a post-baccalaureate career.

Withdrawal after the seventh week is normally not permitted. If students have attended the class, done the work, and have a valid reason for failing to complete the course, their instructor should normally assign the "I," Incomplete (Authorized) grade.

Withdrawal from a class after the seventh week requires a petition including verification of the reason by an impartial third party, written on letterhead, and signature of the instructor, department chair, and college dean. The requirements for withdrawal from the university from the third through the seventh weeks must also be fulfilled. Petitions are then reviewed by the Registration and Records Appeals Committee, approval is not automatic.

Students may not withdraw if they have taken the final examination or completed all course requirements.

If students do not attend class and do not have an approved withdrawal petition, they will receive a failing grade of "WU" or "NC," depending on the grading pattern selected for the course.

Details on the withdrawal process are documented in the Registration & Enrollment chapter.

Withdrawal Unauthorized (WU)

This administrative grade indicates that students enrolled in a course, but did not withdraw from the course and also failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities, or both, were insufficient to make normal evaluation of academic performance possible. The "WU" is calculated in the grade point average as an "F" grade.

Audit (AU)

Students may take courses for instruction only (Audit), and will attend class but will not receive credit. Audit students will pay the same fees and enjoy the same instructional privileges as students enrolled for credit. Audit students may participate in class, take examinations or complete other assignments, but are not required to do so.

Students may not petition to change their enrollment status from, or to, "Audit" after the Add/Drop period has ended.

Details on the audit process are covered in the Registration & Enrollment chapter.

Advancement to Candidacy

"Candidacy" is a status which recognizes completion of substantial progress towards your degree. A student becomes eligible for Advancement to Candidacy when they:

- have become a "Classified Graduate" student in good standing;
- have completed at least 12 quarter units of 6000-level coursework with a minimum 3.0 GPA;
- have designed a formal program of study approved by your graduate advisor;
- have fulfilled the University Writing Skills Requirement;
- have completed other department prerequisites for advancement; and
- are recommended for Advancement to Candidacy by their academic advisor (subject to approval by the department's graduate coordinator).

Affirmative Consent

Affirmative Consent means an informed, affirmative, conscious, voluntary, and mutual agreement to engage in sexual activity. It is the responsibility of each person involved in the sexual activity to ensure that s/he has the affirmative consent of the other participant(s) to engage in the sexual activity. Lack of protest or resistance does not mean consent nor does silence mean consent. Affirmative consent must be voluntary, and given without coercion, force, threats or intimidation.

- The existence of a dating or social relationship between those involved, or the fact of past sexual activities between them, should never by itself be assumed to be an indicator of affirmative consent. A request for someone to use a condom or birth control does not, in and of itself, constitute affirmative consent.

- Affirmative consent can be withdrawn or revoked. Consent to one form of sexual activity (or sexual act) does not constitute consent to other forms of sexual activity. Consent given to sexual activity on one occasion does not constitute consent on another occasion. There must always be mutual and affirmative consent to engage in sexual activity. Consent must be ongoing throughout a sexual activity and can be revoked at any time, including after penetration. Once consent is withdrawn or revoked, the sexual activity must stop immediately.
- A person who is incapacitated cannot give affirmative consent. A person is unable to consent when s/he is asleep, unconscious or is incapacitated due to the influence of drugs, alcohol, or medication so that s/he could not understand the fact, nature or extent of the sexual activity. A person is incapacitated if s/he lacks the physical and/or mental ability to make informed, rational decisions. Whether an intoxicated person (as a result of using alcohol or other drugs) is incapacitated depends on the extent to which the alcohol or other drugs impact the person's decision-making capacity, awareness of consequences, and ability to make fully informed judgments. A person's own intoxication or incapacitation from drugs or alcohol does not diminish that person's responsibility to obtain affirmative consent before engaging in sexual activity.
- A person with a medical or mental disability may also lack the capacity to give consent.
- Sexual activity with a minor (a person under 18 years old) is not consensual, because a minor is considered incapable of giving legal consent due to age.
- It shall not be a valid excuse that a person affirmatively consented to the sexual activity if the respondent knew or reasonably should have known that the person was unable to consent to the sexual activity under any of the following circumstances:
 - The person was asleep or unconscious;
 - The person was incapacitated due to the influence of drugs, alcohol or medication, so that the person could not understand the fact, nature or extent of the sexual activity;
 - The person was unable to communicate due to a mental or physical condition
- It shall not be a valid excuse that the respondent believed that the person consented to the sexual activity under either of the following circumstances:
 - The respondent's belief in affirmative consent arose from the intoxication or recklessness of the respondent;
 - The respondent did not take reasonable steps, in the circumstances known to the respondent at the time, to ascertain whether the person affirmatively consented.

Auditing

An auditor (an enrolled student or non-enrolled individual) pays the same fees and enjoys the same instructional privileges as a student enrolled for credit, but is not held responsible for examinations or term papers. Regular class attendance is expected, and enrollment as an auditor may be deleted if the expected attendance is not observed. If students wish to enroll in a course as an auditor, they must obtain permission from the instructor of the course. Enrollment as an auditor is permitted only after students otherwise eligible to enroll on a credit basis have had an opportunity to do so. Once enrolled in a course as an auditor, students may not change their enrollment to a credit basis unless such a change is requested

no later than the last day to add classes. Students, who are enrolled in a course for credit, may not change to an audit basis after the Add/Drop period has ended.

Baccalaureate Degree Defined

A baccalaureate degree, often called a bachelor's degree, is the academic title that the university confers after successful completion of a minimum number of college credit units (180 quarter units at Cal State East Bay), including certain specified patterns of coursework (for example, General Education and a major), a minimum number of advanced units (60 upper division) with a grade point average of at least 2.00 (on a 4.00 point scale), and various other requirements specified in Title 5 of the California Code of Regulations. Some students in higher unit majors will complete more than the minimum 180 units for their degree. Cal State East Bay offers three baccalaureate degrees, a Bachelor of Arts (B.A.) degree, a Bachelor of Fine Arts (B.F.A.), and a Bachelor of Science (B.S.) degree. The degree awarded appears on your diploma and permanent record.

Many students are able to attend school full-time (three quarters) and earn 15-16 units a term. Because some students have commitments other than college, they take fewer units and occasionally do not attend every quarter. Consequently they take longer to complete their degrees.

Cal State East Bay operates on a year-round, four-quarter system. Hence, by taking a full academic load of 15-16 units per quarter, four quarters a year, it is possible to graduate in three years. (A maximum of 105 units may be completed at a community college and transferred to a CSU campus.)

Information concerning the graduation rates of students enrolling at Cal State East Bay is available online at: <http://www.csueastbay.edu/ira/>

Capstone Experience

The capstone experience of the graduate program will be the successful completion of a thesis, project, or comprehensive examination. The quality of the student's work, including quality of expression, is the major consideration in judging the success of this degree component.

Thesis

A thesis is the written product of a systematic study of a significant issue. In the thesis, the student is expected to identify the issue, state the major assumptions, explain the significance of the project, detail sources for and methods of obtaining data, provide analysis of the data, and offer conclusions. The thesis should demonstrate original critical and independent thinking, appropriate organization and format, and thorough documentation. If the research involves human subjects, the protocols must be approved by the Institutional Review Board (see "Research with Human Subjects" in the Appendix).

Cal State East Bay offers two kinds of master's degree theses, University Thesis (numbered 6910) and

Departmental Thesis (numbered 6909). Students required, or electing, to write a thesis must register for a minimum of one unit of either 6909 or 6910 in order to receive credit toward completion of this capstone experience. Students should check with the department for information on the number of units for which they must enroll.

Most criteria are the same for both the Departmental Thesis and the University Thesis.

- The candidate must be a graduate student (i.e., admitted to a master's degree program) to enroll in a thesis course; the academic department may add additional requirements.
- The student's thesis work will be supervised by a departmental committee which must include at least one Cal State East Bay faculty member who is a member of the major department.
- The student may not receive credit for more units of thesis work than allowed by the degree program.
- Each quarter the student will receive a grade of "RP" (Report in Progress) for units earned in 6909 or 6910 until they have completed their thesis; the student will then be given a final grade for the entire course. No "RP" units will be counted towards the degree or in calculating their GPA. If the thesis is not approved within five years of your initial enrollment in a thesis course, the "RP" grade(s) will be changed to "F" or "NC" (depending on the grading pattern of the course).
- Normally a degree candidate will be required to present an oral defense of their thesis.

There are also a few significant differences between the two kinds of theses:

A Master's degree candidate may not earn more than 9 units for University Thesis, while the maximum for Departmental Thesis is 5 units. Several departments have lower unit requirements, so the student should check the program description in this catalog.

The format of a University Thesis is established by the Associate Vice President, Academic Programs and Graduate Studies. Since these works are expected to serve as resources for future research, the format is formal. An electronic copy is placed in the Institutional Repository. A Departmental Thesis, on the other hand, is usually not as formal. The Departmental Thesis standards and format are determined by the department, and the thesis is retained by the department.

University Thesis:

For information on the steps to follow (the approval process, required format for the structural elements of the thesis, and deadlines) when writing a University Thesis, consult the University Thesis Writing Guide available online at: www.csueastbay.edu/thesiswritingguide. If a student has questions concerning the selection of a topic, and/or the procedure to establish a thesis committee and research protocols, they should contact their department advisor or graduate coordinator. If the student has additional questions concerning the formatting and binding of their University Thesis after having read the University Thesis Writing Guide, it is recommended they contact the University Thesis Editor at: thesis.editor@csueastbay.edu

Departmental Thesis:

For information about a Departmental Thesis (the department's thesis guidelines, including format, acceptable thesis topics, and procedures to establish a thesis committee) contact the department advisor or graduate coordinator.

Project

A project is a significant piece of non-written work in either a fine or applied art or a professional field. Projects should provide evidence of originality, independent thinking, and appropriate form and organization. Students are required to describe their project in a written abstract that addresses the project's significance, objectives, methodology, and conclusions. In some cases, the student may be required to present an oral defense.

Specific criteria for a Project (numbered 6899) are the same as those for a Departmental Thesis with a few exceptions.

- An "RP" grade in a project course will become an "F" (no "NC" option) after one year if your project is not completed.
- While the project need not be considered a research resource, it should be of a caliber to constitute a valid terminal activity in a master's degree program and will be permitted only when a thesis is not appropriate.

If a Master's degree student changes from a program requiring a thesis to one requiring a project (or vice versa), they may count a combined maximum of 9 units for 6909, 6910, and 6899 towards the degree.

Comprehensive Examination

A comprehensive examination is intended to assess the student's mastery of relevant subject matter, their ability to analyze and integrate the knowledge of their field, their skill in critical and independent thinking, and their use of appropriate organization and accurate documentation. A record of the student's examination (questions and responses) will be retained by their department. Some departments grant unit credit for exam preparation while others do not.

Certificate Program Defined

A certificate program is a coherent set of academic courses, considerably narrower in scope and objectives than a degree or major, for which you can receive a certificate upon its successful completion. Most certificate programs are oriented toward occupations and/or career skills. A certificate program must contain at least 12 units of courses numbered 3000 or above and a minimum of 20 total units (unless the certificate consists solely of 5000- and 6000-level courses in which case only 15 units are required). Each certificate program must contain a required core of at least three courses and 12 units. You can design a special certificate with faculty advice. See the General Education: Interdisciplinary Studies and Special Certificates chapter of this catalog.

Some certificate programs have admission requirements. Refer to the catalog description of the specific certificate program for more information. You must receive a grade of "C" or better in each

undergraduate and 5000-level course and a "B" or better in each graduate course (6000- level) applied to the program. Only one course below the 6000-level may be taken "CR/NC" and no graduate course may be taken "CR/NC" in a certificate program unless that is the only grading pattern for the course. You must take at least 75% of the courses and all 5000- and 6000- level courses at Cal State East Bay. You may not receive a certificate if you have already received a major, option, or minor with the same title.

Certificate programs are designed to serve students who have a limited time to spend at Cal State East Bay and/or who wish to learn specific subjects, concepts, skills, and competencies. Most certificate programs add a specific occupational skill to an academic major that was previously completed or is being completed concurrently. Such programs are compatible with the related major and contain no prerequisites not included in the major and/or required G.E. Some certificate programs are designed to provide the preprofessional background for students contemplating transfer to other universities offering programs not available at CSUEB. These certificate programs have been made compatible with the professional program by including all prerequisite or strongly recommended preparatory courses that are offered by Cal State East Bay. Still other certificate programs are the equivalent of minors that can be earned without a degree. These are normally completed by students who already possess a baccalaureate degree and want to add some skills in a new field without completing another entire degree. Such certificate programs meet at least the minimum requirements for an academic minor in the discipline.

No student is required to complete a certificate program. Completion of a certificate program is recognized by the awarding of a certificate. There is no notation about the program on either a diploma or permanent record. (The courses will, of course, be on your permanent record.) You may pursue a certificate program before, during, or after your baccalaureate degree. Unlike a minor, a certificate is not part of a degree.

University Extension also offers professional and career development Certificate Programs which may be taken for academic credit or Continuing Education Units (CEUs). For information about the certificate programs offered by University Extension please visit <https://www.ce.csueastbay.edu/>.

"Classified" Status

What does it mean to be admitted as a "classified", "unclassified" or "conditionally classified" student?

Graduate Classified

To be admitted as "classified," a graduate student must have fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus for the degree objective inwhich the student has declared upon admission.

Graduate Conditionally Classified

Applicants may be admitted to a graduate degree program as "conditionally" classified if, in the opinion of appropriate campus authority, deficiencies (i.e. from the list above) may be remedied by additional preparation. This is meant to be a temporary status until the conditionally classified student has fulfilled

all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus for the degree objective.

Post-Baccalaureate Classified, e.g. admission to an education credential program

Persons wishing to enroll in a credential or certificate program, will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus. By meeting the specific program requirements, applicants are eligible for admission as post-baccalaureate classified students

Post-Baccalaureate Unclassified

To enroll in undergraduate courses as preparation for advanced degree programs or to enroll in graduate courses for professional or personal growth, applicants must be admitted as post-baccalaureate unclassified students. By meeting the general requirements, applicants are eligible for admission as post-baccalaureate unclassified students. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program.

Note: Most CSU campuses, including Cal State East Bay, do not offer admission to unclassified post-baccalaureate students.

Consensual Relationship

Consensual relationship means a sexual or romantic relationship between two persons who voluntarily enter into such a relationship. While sexual and/or romantic relationships between members of the University community may begin as consensual, they may evolve into situations that lead to discrimination, harassment, retaliation, sexual misconduct, dating or domestic violence, or stalking.

- A University employee shall not enter into a consensual relationship with a student or employee over whom s/he exercises direct or otherwise significant academic, administrative, supervisory, evaluative, counseling, or extracurricular authority. In the event such a relationship already exists, each campus shall develop a procedure to reassign such authority to avoid violations of policy.
- This prohibition does not limit the right of an employee to make a recommendation on the personnel matters concerning a family or household member where the right to make recommendations on such personnel matters is explicitly provided for in the applicable collective bargaining agreement or MPP/confidential personnel plan.

Co-requisite

A co-requisite course is a course that must be taken *concurrently* in the same quarter, or have been *previously completed*.

Credit Equivalency

A semester course that is replacing a quarter course(s) within a department, where both can be considered equivalent for major requirement, articulation, and academic renewal purposes. If a course is equivalent, students who took the quarter version of the course, and passed, cannot then register for and receive credit for the semester version of the course.

Credit Hour

As of July 1, 2011 federal law (Title 34, Code of Federal Regulations, sections 600.2 and 600.4) requires all accredited institutions to comply with the federal definition of the credit hour. For all CSU degree programs and courses bearing academic credit, the "credit hour" is defined as "the amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or
2. At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution, including laboratory work, internships, practice, studio work, and other academic work leading to the award of credit hours."

A credit hour is assumed to be a 50-minute period. In courses in which "seat time" does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement.

Cross-listed

Cross-listed courses are two identical courses (number, title, units, classification and description are the same), but each have differing course prefixes. Cross-listed courses can belong to differing departments or the same department. An example could be: ABC 1234 is cross listed with XYZ 1234 - they are essentially the same course except for their prefixes.

Also see: *Prefixes* in this chapter.

Dating Violence

Dating violence is abuse committed by a person who is or has been in a social or dating relationship of a romantic or intimate nature with the victim. This may include someone the victim just met; i.e., at a party, introduced through a friend, or on a social networking website. For purposes of this definition, "abuse" means intentionally or recklessly causing or attempting to cause bodily injury or placing another person in reasonable apprehension of imminent serious bodily injury to himself or herself, or another. Abuse does not include non-physical, emotional distress or injury.

Doctoral Degree Defined

Cal State East Bay offers one (Ed.D) doctoral program. A graduate student who wishes to receive a 90-unit doctoral degree in Education should check the Educational Leadership for Social Justice, Ed.D. program chapter in this catalog, as well as consult the Doctoral Handbook (available from the Department of Educational Leadership office) for academic load information.

Domestic Violence

Domestic violence is abuse committed against someone who is a current or former spouse, current or former cohabitant, someone with whom the abuser has a child, someone with whom the abuser has or had a dating or engagement relationship, or a person similarly situated under California domestic or family violence law. Cohabitant means two unrelated persons living together for a substantial period of time, resulting in some permanency of relationship. It does not include roommates who do not have a romantic, intimate, or sexual relationship. Factors that may determine whether persons are cohabiting include, but are not limited to:

1. sexual relations between the parties while sharing the same living quarters,
2. sharing of income or expenses,
3. joint use or ownership of property,
4. whether the parties hold themselves out as husband and wife,
5. the continuity of the relationship, and
6. the length of the relationship.

For purposes of this definition, "abuse" means intentionally or recklessly causing or attempting to cause bodily injury or placing another person in reasonable apprehension of imminent serious bodily injury to himself or herself, or another. Abuse does not include non-physical, emotional distress or injury.

Drop

The word "drop" refers to official deletion of a course from a student's record. If students cannot continue enrollment in a course for which they enrolled in for that particular quarter, they must officially drop the

course using *MyCSUEB*. Students can not "drop" after the end of the Add/Drop period, but they can "withdraw" until the seventh week of the term.

See also: *Withdrawal in this chapter.*

Dual-listed

Dual-listed courses are those that are identical in content with undergraduate and graduate students taught in the same classroom, with the same instructor, and at the same time. However, the course requirements will be different for the undergraduate and graduate. The undergraduate course should have an upper division, senior-level course number; the graduate course will have a 6000-level course number.

Free Electives

Most students have some units not prescribed by G.E., the major, or other graduation requirements. These range from one or two courses in a few very large, occupationally oriented majors to a dozen or more courses in some humanities and social science majors.

Free electives are courses you are free to select to complete your minimum unit requirements for the degree. Some students complete free electives with whatever looks interesting when they have free hours in their schedules, but most students have a purpose in mind. This could be taking more courses in the major to prepare for graduate school or employment, taking a minor or certificate program (defined in this section) to complement the major (e.g., an English major taking a Marketing minor), or simply following a special interest (e.g., dance or photography). No student is required to do any of these things, but it is important that you understand your choices.

Grade Point Average & Its Significance

Grade point average (GPA) is computed by dividing the total number of quality hours (units attempted), whether or not they were passed (but excluding "CR/NC" courses and those in which administrative grades were assigned except for the "WU"), into the number of quality (grade) points earned. A 2.00 (C) average in all college/university courses, all Cal State East Bay courses, and all major courses is required for a baccalaureate degree (excluding "CR," "NC," "W," and "AU" grades). All courses required by a major, including those in other departments, must be included in the calculation of the major GPA.

"CR" and "NC" grades and units are not included in the GPA calculation.

"RP" and "I" grades and units are not included in the GPA calculation. An "RP" or "I" grade becomes an "F" if the coursework is not completed in the specified time frame. The "F" will be included in the GPA calculation in the quarter in which the "RP" or "I" changes.

"WU" grades are regarded the same as "F's" in the GPA calculation.

"RD" grades and units are not included in the GPA.

"W" grades and units are not included in the GPA.

"RD" grades and units are not included in your GPA.

"W" grades and units are not included in your GPA.

You earn grade (quality) points on the following basis:

- 4 quality points per unit of A,
- 3.7 quality points per unit of A-,
- 3.3 quality points per unit of B+,
- 3 quality points per unit of B,
- 2.7 quality points per unit of B-,
- 2.3 quality points per unit of C+,
- 2 quality points per unit of C,
- 1.7 quality points per unit of C-,
- 1.3 quality points per unit of D+, and 1 quality point per unit of D.
- A grade of "F" or "WU" earns no quality points.

Graduate Student Defined

A student is considered a Graduate Student at Cal State East Bay if they have been admitted as:

A Master's Student

A student that has been admitted to a specific master's degree program as a "Conditionally Classified" or "Classified" student, or to an advanced credential program which can be earned in conjunction with a master's degree. A graduate student who wishes to receive a 45-unit master's degree in one year needs to enroll in 15 units for three quarters or 11-12 units for four quarters. (Eight units a quarter is the minimum for full-time status.)

A Post-Baccalaureate Student

Basic teacher credential programs constitute a separate area of post-baccalaureate work, and students in these programs are defined as "Classified Post-Baccalaureate" students.

A Doctoral Student

A student who wishes to receive a 90-unit doctoral degree in Education. These students should check the Educational Leadership for Social Justice, Ed.D. program chapter in this catalog, as well as consult the Doctoral Handbook (available from the Department office) for academic load information.

Hybrid Course

A hybrid class is taught with the aspects of both on-ground and online environments; access to a computer can be required.

Independent Study Course

An Independent Study course is a program of study, which is above and beyond the regular offerings of a department. The number of such a course is 4900, 5900, 6900 or 8900 depending on the level and content of the work. Such a course is considered as elective credit in the program of a student working for a specified objective. Students may apply no more than 12 units of independent study in the major department and 8 units in other departments to a baccalaureate degree.

The privilege of Independent Study is limited to undergraduate students who have at least a 2.0 (C) grade point average and graduate students with at least a 3.0 (B) grade point average in all courses in the field or department in which the Independent Study is to be taken, both at this institution and in any work attempted at other institutions. If students are on academic probation, they are ineligible for Independent Study. Independent Study is restricted to students who are able to work with minimal supervision. No faculty member is required to teach an Independent Study course, and arrangements must be made to determine how the faculty's teaching overload (if any) will be made up.

Students may obtain applications for Independent Study (Special Registration Petition) in departmental offices. The application, with signatures of approval, is to be returned to the department office during the enrollment period for that term.

A course offered by Independent (or Individual) Study shall be taught only by a professor in the department offering the credit or by a professor the department judges to be competent to teach the particular course.

Individual Study Course

An Individual Study course is a course that is listed in the Cal State East Bay Catalog, but is not being offered during the term in which a student must gain course credit to complete a specified objective. Permission to take such a course may be granted only in cases of necessity, and arrangements must be made to determine how the faculty's teaching overload (if any) will be made up. Students may obtain applications for Individual Study (Special Registration Petition) in departmental offices. They then return the application, with signatures of approval, to the departmental office during the enrollment period for that term.

Major Defined

A major is a specified pattern of courses in a particular discipline or group of disciplines. (A list of Cal State East Bay undergraduate majors appears on the page of this catalog.) It complements G.E. by allowing you to specialize in one area, to study it in more depth than the one or two courses taken for G.E. in other disciplines. A few majors (such as Music and Spanish) are self-contained in the major department and have no courses that can double-count in G.E. Most majors, however, require some coursework in other departments and these courses, if applicable to G.E., can be double-counted. You can design an Interdisciplinary Studies Major with faculty advice and administrative support (see the General Education: Interdisciplinary Studies and Special Certificates chapter of this catalog).

A major is not the same as a career, though some majors are more closely allied to specific careers than others. There are people in most careers from a wide variety of majors. Cal State East Bay majors are described in the Programs of Study by Degree Type section of this catalog, and career options are listed for each of them.

A Bachelor of Science (B.S.) degree major often requires more units than a Bachelor of Arts (B.A.) degree major. A Bachelor of Fine Arts (B.F.A.) degree major requires more units than most B.S. or B.A. degree majors because it is so specialized.

You may declare your major either on your application when you apply to Cal State East Bay or after you enroll by filling out a "Change of Major" form available in the Student Enrollment and Information Center, 1st Floor, Student Services and Administration Building, online at the Student Records Forms website, or in the Student Services Center at the Concord Campus.

You may complete more than one major with permission. All majors earned will appear on the same diploma.

Master's Degree Defined

The master's degree is awarded for completion of a planned and integrated program of advanced study earned after completion of an undergraduate degree. It recognizes that a student has mastered a particular field sufficiently to pursue creative or applied projects in that field. The minimum number of units for a Cal State East Bay master's program is 30 semester units with a grade point average of 3.0 (on a 4.00 scale), and various other requirements specified in Title 5 of the California Code of Regulations as well as requirements in this University Catalog. It typically requires at least two years of full-time study (or longer if pursued part time) beyond the bachelor's degree. Master's degrees are awarded in various disciplines as M.A. (master of arts), M.S. (master of science) or as discipline-specific degrees such as business (M.B.A), public administration (M.P.A.), or social work (M.S.W).

A master's degree provides students with a mastery of a particular area of knowledge; an ability to relate that knowledge to knowledge in other disciplines; an ability to deal systematically with the concepts,

theory, and principles in new situations; an ability to formulate and deal with problems on an advanced level; methodological, technical, and communication skills essential for advanced study; an ability to undertake independent investigation and research; abilities characteristic of professional performance; and attitudes conducive to continuous intellectual and professional development.

Every master's degree program includes what is termed a capstone experience. This may include a thesis or its equivalent, a comprehensive examination, or project. Your completion of the capstone experience demonstrates that you have successfully integrated the various elements of the graduate learning experience and have gained an in-depth knowledge of your discipline.

Matriculation

A matriculated student is regularly enrolled after being admitted to the university.

Minor Defined

A minor is a coherent program in some field or group of related fields other than your major. Minors range in size from 24-48 quarter units, at least 12 of which must be upper division. No student is required to have a minor, so it will not appear on your record or diploma unless you declare it. The minimum grade point average for a minor is 2.00, so you must take at least one course on the A-F grading pattern. At least 50% of a minor or 12 units, whichever is less, must be taken at Cal State East Bay if you want the minor recognized on your diploma and/or permanent record.

Courses in a minor may be double-counted in G.E. However, at least 18 quarter units of a minor must not be double-counted in the discipline of the major for Cal State East Bay to recognize the minor.

If you wish to complete a minor, fill out a "Change of Major, Minor, Option" form available online at the Student Records Forms website.

You cannot get a minor in the same department as your major unless the disciplines are distinct (e.g., French and Spanish, Art History and Studio Art). A minor is recognized only when a baccalaureate degree is awarded.

Multiple Majors

You can pursue two or more majors simultaneously with permission, making sure they differ from each other by a minimum of 18 units.

The disadvantage of completing multiple majors while working on the same degree is that you have to delay graduation until you complete all requirements of all the majors. However, you are checked for

completion of the G.E. requirements only once (and the only department excluded from G.E. is your first major, not any additional ones).

In the case of multiple degrees, it is possible for you to pursue additional degrees simultaneously or consecutively. If you complete a second baccalaureate simultaneously with your first baccalaureate, you will not need to take additional residency or General Education units beyond those required for the degree you indicate as your primary baccalaureate.

If you return to complete a second bachelor's after graduating with your first bachelor's from an institution accredited by a regional accrediting association, you are not required to complete any additional GE, graduation requirement, or Code courses. You will only be required to complete courses specifically required to complete your current major, and the University Writing Skills Requirement if you did not satisfy it with your first degree.

If you enroll at CSUEB to complete a second bachelor's after graduating with your first bachelor's from a non-CSU institution, you will have your GE and Code courses evaluated under the appropriate GE catalog and CSUEB GE pattern. In this situation, the 12 units of GE in residence are a requirement for your second baccalaureate. You will be held to the University Writing Skills Requirement.

You cannot get two degrees in the same field. For example, a B.A. with a major in Geology and a B.S. with a major in Geology, or a B.S. with a major in Business Administration (Option in Accounting) and a B.S. with a major in Business Administration (Option in Marketing) are not allowed. (Note: Although you cannot receive two B.S. degrees in Business Administration, you can receive a single B.S. degree in Business Administration with two options.)

Any options and minors completed within your degree will also be recorded on your diploma and permanent record if you request them.

MyCSUEB

A Class Schedule, prepared each quarter, lists general information, courses offered, hours, rooms, instructor names, and final examination times. The online Class Schedule is available before enrollment begins in MyCSUEB each quarter. Important information such as the quarterly calendar, orientation, important dates, registration, fees, course selection, and student services contact information may be viewed at: www20.csueastbay.edu/students/.

Non-catalog Courses

Each quarter, Cal State East Bay offers a variety of new courses whose descriptions are not yet in the catalog. Such courses carry full credit and fulfill the same requirements as regular courses in the curriculum. Students, therefore, should not hesitate to take them. (Remedial courses, whose numbers begin with "0," are not applicable to the baccalaureate degree, but are applicable to the student's class load for that term.)

Descriptions of new, non-catalog courses appear in the Class Schedule each quarter. A new course may be passed by examination or challenged only after it has been listed in the Class Schedule and has been or is being taught.

On-ground Course

An entirely on-ground class is taught face-to-face, exclusively within the classroom; technically a student in such a class would not be required to have computer access.

Online Course

An entirely online class is taught exclusively in an online environment; access to a computer would be required for all students. No on-campus meetings are required.

Open University

Most courses taught by regular Cal State East Bay faculty are available to students through Open University. To enroll in an Open University course, applicants must complete an online Open University application form each term they wish to attend. The application deadline is the eighth instructional day of the term. Go to <https://www.ce.csueastbay.edu/ce/programs/open-university/> to apply online and view application deadlines. Late applications will not be accepted.

Option Defined

An "option" is a prescribed pathway through a major which allows for emphasis on a particular segment of the discipline (for example, the Accounting Option in the Business Administration Major and the Dance Option in the Theatre Arts Major). Not all majors have formal options. Some majors with formal options require you to select an option (e.g., Business Administration) whereas others do not (e.g., Political Science). In some majors, different options have different total unit requirements.

An option will appear on your diploma if you declare it prior to graduation. If you wish to complete more than one option and have the additional option(s) recorded, each must differ by at least three courses and nine units from any other option you complete.

Note: Beginning 2018 Cal State East Bay will be changing the term "option" to "concentration" to be more in line with other campuses of the CSU. This new terminology for CSUEB will be used for the first time in the 2018-2019 Catalog. The definition of "option" above will also apply to the new term "concentration."

Prefixes (Course, Dept, College)

Click on this PDF link for course, department and college prefix definitions: [APGS - Prefix Description](#)

Prerequisite

A prerequisite may be another course or group of courses containing necessary background material for full understanding of the course content or a non-course requisite. Prerequisites, if any, are noted in course descriptions. Students must have completed the prerequisites listed in the course descriptions for any course they use to satisfy the requirements.

Note: Prerequisite units may not be included in the total program units and therefore should be considered when planning your program roadmap. Consult with your academic/faculty advisor or department for further information concerning prerequisites and program roadmaps.

Rape

Rape is a form of sexual misconduct and is non-consensual sexual intercourse that may also involve the use of threat of force, violence, or immediate and unlawful bodily injury or threats of future retaliation and duress. Any sexual penetration, however slight, is sufficient to constitute rape. Sexual acts including intercourse are considered non-consensual when a person is incapable of giving consent because s/he is incapacitated from alcohol and/or drugs, is under 18 years old, or if a mental disorder or developmental or physical disability renders the person incapable of giving consent. The respondent's relationship to the person (such as family member, spouse, friend, acquaintance or stranger) is irrelevant.

Acquaintance rape is a form of sexual misconduct committed by an individual known to the victim. This includes a person the victim may have just met; i.e., at a party, introduced through a friend, or on a social networking website.

- Also see *Dating Violence Defined*

Sexual Assault & Sexual Battery

Sexual assault is a form of sexual misconduct and is an attempt, coupled with the ability, to commit a violent injury on the person of another because of that person's gender or sex.

Sexual battery is a form of sexual misconduct and is any willful and unlawful use of force or violence upon the person of another because of that person's gender or sex as well as touching an intimate part of another person against that person's will and for the purpose of sexual arousal, gratification or abuse.

Gender Discrimination

Gender discrimination means an adverse act taken against an individual because of gender or sex (including sexual harassment, sexual misconduct, domestic violence, dating violence, and stalking) that is perpetrated against an individual on a basis prohibited by Title IX of the Education Amendments of 1972, 20 U.S.C. §1681 et seq., and its implementing regulations, 34 C.F.R. Part 106 (Title IX); California Education Code §66250 et seq., and/or California Government Code §11135.

Sexual Harassment

Sexual harassment, a form of sex discrimination, is unwelcome verbal, nonverbal or physical conduct of a sexual nature that includes, but is not limited to, sexual advances, requests for sexual favors, and any other conduct of a sexual nature where:

- 1. Submission to, or rejection of, the conduct is explicitly or implicitly used as the basis for any decision affecting a Complainant's academic status or progress, or access to benefits and services, honors, programs, or activities available at or through the University; or
- 2. The conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the Complainant, and is in fact considered by the Complainant, as limiting his or her ability to participate in or benefit from the services, activities or opportunities offered by the University; or
- 3. The conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the Complainant, and is in fact considered by the Complainant, as creating an intimidating, hostile or offensive environment.

Sexual Harassment could include being forced to engage in unwanted sexual contact as a condition of membership in a student organization; being subjected to video exploitation or a campaign of sexually explicit graffiti; or frequently being exposed to unwanted images of a sexual nature in a classroom that are unrelated to the coursework.

Sexual Harassment also includes acts of verbal, non-verbal or physical aggression, intimidation or hostility based on Gender or sex-stereotyping, even if those acts do not involve conduct of a sexual nature.

Executive Order 1097 covers unwelcome conduct of a sexual nature. While romantic, sexual, intimate, personal or social relationships between members of the University community may begin as consensual, they may evolve into situations that lead to Sexual Harassment or Sexual Misconduct, including Dating or Domestic Violence, or Stalking, subject to this policy.

Claiming that the conduct was not motivated by sexual desire is not a defense to a complaint of harassment based on Gender.

Sexual Misconduct

All sexual activity between members of the University community must be based on affirmative consent. Engaging in any sexual activity without first obtaining affirmative consent to the specific activity is sexual misconduct, whether or not the conduct violates any civil or criminal law. Sexual activity includes, but is not limited to, kissing, touching intimate body parts, fondling, intercourse, penetration of any body part, and oral sex. It also includes any unwelcome physical acts, such as unwelcome sexual touching, sexual assault, sexual battery, rape, and dating violence. When based on gender, domestic violence or stalking also constitutes sexual misconduct. Sexual misconduct may include using physical force, violence, threat or intimidation, ignoring the objections of the other person, causing the other person's intoxication or incapacitation through the use of drugs or alcohol, or taking advantage of the other person's incapacitation (including voluntary intoxication) to engage in sexual activity. Men as well as women can be victims of these forms of sexual misconduct. Sexual activity with a minor is never consensual when the complainant is under 18 years old, because the minor is considered incapable of giving consent.

Stalking

Stalking means a repeated course of conduct directed at a specific person that would cause a reasonable person to fear for his/her or others' safety or to suffer substantial emotional distress. For purposes of this definition:

- Course of conduct means two or more acts, including but not limited to, acts in which the stalker directly, indirectly, or through third parties, by any action, method, device, or means, follows, monitors, observes, surveys, threatens, or communicates to or about a person, or interferes with a person's property;
- Reasonable person means a reasonable person under similar circumstances and with the same protected status as the complainant;
- Substantial emotional distress means significant mental suffering or anguish that may, but does not necessarily, require medical or other professional treatment or counseling.

Undergraduate Classification Level

Undergraduate students are assigned a class level according to the following plan:

Quarter Units Earned Toward the Degree

Lower Division:

Freshmen	Fewer than 45
Sophomores	45 but fewer than 90

Upper Division:

Juniors	90 but fewer than 135
Seniors	135 or more
Graduating Seniors	150 or more, filed, and paid fee

Units

All college courses at Cal State East Bay have unit values based on the number of 50-minute hours they meet each week. In most lecture, lecture-discussion, and seminar courses, each hour/week is a unit, but in laboratories, activities, and performances, students may put in two or more hours per week for each unit of credit. Because each classroom hour normally requires two hours of outside study per week, working students should carefully balance the time required for academic preparation with outside commitments. Courses meeting for more hours per week than their units have the amount of weekly class time noted in their course descriptions.

Withdrawal

The word "withdrawal" refers to official termination of enrollment in a class after the Add/Drop period. Students can withdraw from a class only for serious health or personal problems beyond their control.

F.A.Q.

Click on any link to take you to corresponding information located in the catalog. *Note: Failure to read and comply with all policies, regulations, and procedures will not exempt a student from possible penalties. Please, familiarize yourself with all the chapters of this catalog.*

Frequently Asked Questions

Am I responsible for other fees?

Are there special admission and eligibility requirements for international students?

Can I qualify for Grade Forgiveness?

Does the university have any special provisions for enrollment and admission?

How are a student's transfer units evaluated?

How can I be readmitted after Academic Disqualification?

How can I qualify for the Dean's and Honors Lists?

How do I request Grade Forgiveness?

How do students enroll for classes?

How does Cal State East Bay define and handle academic dishonesty?

How does one become a Cal State East Bay student?

How is my grade point average (GPA) computed?

What is the grading policy at Cal State East Bay?

What are the minimum admission requirements for freshmen?

What are the minimum admission standards for transfer students?

What changes can students make in their enrollment status?

What constitutes probation and disqualification?

What determines a student's classification?

What general policies affect a student's enrollment at Cal State East Bay?

What information do students need to enroll in classes?

What information is necessary for evaluation of admission eligibility?

What is Cal State East Bay's policy regarding fees or debts owed to the institution?

What is Nonresident Tuition?

How is the determination of residency for tuition purposes made?

How may I obtain credit by examination as an undergraduate student?

How should I pay my fees?

How will a student be notified that their application has been received?

How will an applicant be informed of the admission decision?

What are Cal State East Bay's admission procedures and policies?

What are Cal State East Bay's refund policies?

What are the academic grading symbols for undergraduates, and what do they signify?

What are the administrative grading symbols, and what do they signify?

What are the enrollment requirements for transitory (visiting) students?

What are the fees for Continuing Education courses?

What is the California State University's average support cost per full-time equivalent student?

What is the grading policy at Cal State East Bay?

What is the procedure for the establishment or abolishment of a student body fee?

What recourse do I have if I believe I have received a grade that is inappropriate?

What undergraduate fees do I pay when I register at Cal State East Bay?

When are final examinations scheduled?

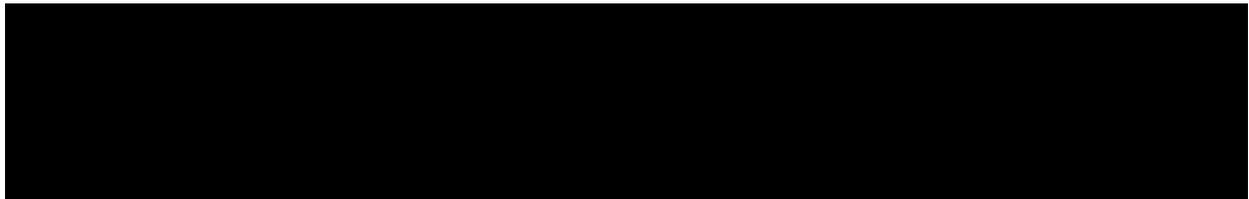
When is the deadline to apply?

When will I receive my grades?

Where can I get information on financial assistance?

Which undergraduate placement examinations do I need to take?

Who must complete an application?



Catalog Revisions & Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the Chancellor or designee of the California State University, or by the President or designee of the campus. It is not possible in a publication of this size to include all of the rules, policies and other information that pertain to students, the institution, and the California State University. More current or complete information may be obtained from the appropriate department, college, or administrative office.

Nothing in this catalog shall be construed, operate as, or have the effect of an abridgement or a limitation of any rights, powers, or privileges of the Board of Trustees of the California State University, the Chancellor of the California State University, or the President of the campus. The Trustees, the Chancellor, and the President are authorized by law to adopt, amend, or repeal rules and policies that apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the campus or the California State University. The relationship of students to the campus and the California State University is one governed by statute, rules, and policy adopted by the Legislature, the Trustees, the Chancellor, the Presidents and their duly authorized designees.

Catalog Production

Curriculum Proposal Process

e-Catalog

Revisions of General Information

Catalog Production

Acknowledgments

The online University Catalog is produced under the direction of the Associate Vice President, Academic Programs and Graduate Studies, Donna Wiley. Department chairs, administrators, and staff also contributed to this team effort.

Editor and Project Supervisor: Sarah Aubert, Catalog and Curriculum Analyst/Specialist, Academic Programs and Graduate Studies

Editor: Sandra Claflin, Curriculum Analyst, Academic Programs and Graduate Studies

Curriculum Proposal Process

There are different approval processes for different types of curriculum proposals. Please refer to the Curricular Procedures Manual and/or consult with your **College Curriculum Coordinator**.

Why can't we modify courses and revise programs mid-year?

Student catalog rights are governed by the catalog in effect at the time they declare their undergraduate major/minor or are admitted to a graduate degree program. To avoid confusion, and to honor our agreement with the student, degree requirements and courses cannot be revised mid-year.

Why can't we update our faculty list in the departmental chapters as changes occur?

All faculty changes (including the appointment of departmental Chairs) need to be verified by the Provost's Office as effective beginning the fall quarter that the catalog is effective. Updating the faculty lists each year requires more time than is currently available for the staff in the Provost's Office and the staff in the Office of Academic Programs and Graduate Studies. For an updated and comprehensive list of all university faculty, emeriti faculty, and lecturers with 3-year contracts, visit the Office of Academic Affairs website.

Why don't all our department's emeriti faculty appear in the departmental chapter's faculty list?

Only the names of emeriti faculty who are currently teaching in the department appear in the departmental chapter. All emeriti faculty, however, appear in the comprehensive faculty list maintained by the Office of Academic Affairs (see above), with the exception of those who are deceased.

I have additional questions. Who should I contact?

For questions concerning the catalog production process: Contact the Catalog Editor, Office of Academic Programs and Graduate Studies (4th Floor, Student Services and Administration Building; Tel. 885-3271).

For questions concerning the status of your curriculum proposal: **Contact your College Curriculum Coordinator.**

e-Catalog

Beginning Catalog 2015-2016, the e-catalog has been published via *Acalog ACMS™ Publisher*. The e-catalog is also now available through mobile devices such as: iPhone, iPod Touch and Android. Questions and concerns regarding the content, layout, or our mobile application should be directed to the Catalog Editor. The current online University Catalog includes all approved curricular updates effective for Fall - Summer of the current year. Archived catalogs can be found in the Archived Catalogs chapter of this catalog.

Adobe Reader is available [here](#).

Revisions of General & Curricular Information

General Information:

Includes all revisions of text in the general information chapters of the catalog. It also includes edits made to general program descriptions in the departmental chapters if a curricular document is not required. These changes do not require an approved curricular proposal. The general information chapters of the catalog and the faculty lists are revised every year.

Fall quarter:

Copies of the general information chapters are sent to the appropriate administrative offices for editing with a specified deadline for returning these copies to the catalog editor, Office of Academic Programs and Graduate Studies.

Curricular Information:

Only curricular changes approved by the Office of Academic Programs and Graduate Studies, and the Academic Senate (if needed) will appear in this catalog review copy.

Winter quarter:

Copies of the revised undergraduate and graduate departmental curricular chapters are sent to the appropriate departments for review. Departments will review their chapters for accuracy only. Departments, however, may make minor edits to **general program descriptions** at this time if a curricular document is not required. Departments will be asked to return the corrected copies of their departmental chapters to the catalog editor, Office of Academic Programs and Graduate Studies by a specified deadline. Given the tight catalog production schedule, this is the only opportunity for departments to review their catalog copy.

Note: The catalog production cycle will be revised to accommodate the conversion from a quarter to semester system. Please consult the Office of Academic Programs and Graduate Studies for more information.

Errata

September 18, 2017

Erratum to *Cal State East Bay at a Glance* chapter: Executive Order 1108 - Policy on Systemwide Smoke and Tobacco Free Environment

All California State University campuses, including CSUEB, will become smoke and tobacco-free effective September 1, 2017. The Policy on a Systemwide Smoke and Tobacco Free Environment - Executive Order 1108 can be found at: <http://www.calstate.edu/eo/EO-1108.html>

September 18, 2017

Erratum to campus-wide *University Thesis (#6910)* courses: "Development and writing of a formal research paper for submission to the university in the specified bound format."

CSUEB no longer requires "bound" theses; check with your graduate advisor for department's specified format.

September 18, 2017

Erratum to *Public Administration, Health Care Administration Option, MPA - Capstone Experience:*

Comprehensive Exam, Departmental or University Thesis

... "Students who choose to take PUAD 6909, Departmental Thesis, or PUAD 6910, University Thesis, should be aware of the procedural differences between a departmental and university thesis. While each carries 4 units of graduate credit, the university thesis requires a two-faculty member committee. The University Thesis Committee meets as called by the student or the faculty and includes the submission of the thesis to the University for final approval and binding. Two bound copies are required (one for the department and one for the university library). The university thesis deadline dates are listed at: Academic Calendar. A departmental thesis is directed by one faculty member. Students completing the departmental thesis may either sign up individually with a faculty advisor or meet in a scheduled graduate course. Two copies of the departmental thesis are required for the department". . .

September 18, 2017

Erratum to *Geology, M.S. - University Thesis or Graduate Project:*

University Thesis students must submit to the Thesis Committee, and defend orally, an acceptable University Thesis. The University Thesis is a formal paper reporting the results of original research. This research normally involves field and/or laboratory investigation. The thesis is submitted to the university in the bound format specified in the "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide. A minimum of two copies of the thesis must be submitted to the Thesis Office (Academic Programs and Graduate Studies, Student Services and Administration Building, Suite 4500); one copy will be filed in the Department Office. The thesis is submitted to the university in the electronic format specified in the "University Thesis Writing Guide". One bound copy is required to be filed in the Department Office, and students may order a bound personal copy. The Thesis Committee comprises the

faculty thesis advisor plus either (1) two other faculty members from the Department of Earth and Environmental Sciences or other appropriate Cal State East Bay faculty, or (2) one other faculty member from the department and one or more qualified individuals from outside the university.

September 18, 2017

Erratum to *M.S. Geology* - correction to curricular requirements:

A. All students are required to take two graduate seminars

- GEOL 6811- Graduate Seminar Units: 2 (x2 for a total of 4 units).

In addition, any combination of graduate geology courses and additional seminars except:

- GEOL 6420 - Internship Units: 1-4
- GEOL 6900 - Independent Study Units: 1-4
- GEOL 6910 -University Thesis Units: 1-9
- GEOL 6899 - Project Units: 1-2

must be taken for a total of 20-27 units.

B. Elective Course Requirement

Twelve units must be completed in courses selected from a list of approved upper division and graduate courses in Geology and related disciplines which is available from the department office; at least 4 units must be in Geology courses.

C. Basic University Requirement

These include the 32-unit residence requirement, the five-year rule on currency of subject matter, the minimum number of units of 6000-level courses, the 3.00 GPA, and the University Writing Skills requirement.

Students cannot receive credit toward the master's degree for:

- Courses taken to remove deficiencies
- GEOL 6900- Independent Study Units: 1-4 in excess of 4 units
- GEOL 6420- Internship Units: 1-4 in excess of 4 units
- GEOL 6910- University Thesis Units: 1-9 in excess of 9 units or GEOL 6899- Project Units: 1-2 in excess of 2 units.
- GEOL 3898- Cooperative Education Units: 1-4

September 18, 2017

Erratum to *Construction Management, M.S. - Capstone Experience*:

. . . To complete a research project, students enroll in CMGT 6899 below. The Project is a capstone cumulative experience based on the coursework completed for the degree and is accompanied by a written document. A faculty member from the department supervises the student's work. One bound copy of the written component of the Project is required for the department.

September 18, 2017

Erratum to "*Graduate*" Application Filing Periods & Deadlines - Clarification specific to Graduate and Credential Students Application and Document Deadlines

This section originally shared the "Undergraduate" Application Filing Periods & Deadlines information that did not clarify the "Graduate" filing periods & deadlines specifically. This change now allows graduate students to see the available University website *Graduate and Credential Students Application and Document Deadlines* information directly.

September 18, 2017

Erratum to *University Administration chapter - Academic Affairs staff changes for AY 2017-2018*

Provost and Vice President, Academic Affairs: Edward S. Inch

- Special Assistant to the Provost: Gina Traversa
- Senior Budget Analyst: Linda Li
- Director, Sustainability Initiatives: Jillian Buckholz
- Associate Provost: Linda S. Dobb
 - Director, Faculty Development: Jessica Weiss
 - Director, Center for Community Engagement: Mary D'Alleva
 - Senior Director, Online Campus: Roger Wen
- Associate Provost for Academic Resources and Planning: Rafael Hernandez, Interim
 - Director, Institutional Research, Analysis and Decision Support: James Hershey
 - Team Leader, Institutional Research: David Garcia
 - Director, University Scheduling: Lucero Wallace

Academic Programs and Services

- Dean of Undergraduate Studies: Maureen Scharberg
 - Director, General Education; Chair, General Studies: Caron Inouye
 - Advisor/Coordinator, General Education Program: Linda Beebe
 - Manager, Peer Mentor Services: Valerie Machacek
 - Director, Academic Advising and Career Education: Lawrence Bliss
 - Director, University Honors Program: Bridget Ford
- Associate Dean, Undergraduate Studies: Mitch Watnik, Interim
 - Director, Graduate Program: Donna Wiley
 - Manager, Educational Effectiveness Research: Fanny PF Yeung
 - Articulation Officer: Kyle Burch

- University Curriculum Coordinator/Catalog and Curriculum Specialist: Sarah Aubert
- University Catalog Editor & Curriculum Analyst: Sandra Claflin
- Instructional Design Specialist: Julie Stein
- Testing Specialist: Meena Sharma
- Presidential Appointee to the Grade Appeal and Academic Grievance Committee: Erica Wildy
- Associate Vice President, University Extension: Brian Cook
 - Director, Continuing Education Programs: Kate White
 - Director, Special Sessions Programs: Balvinder Kumar
 - Director, Marketing: Dan Bellone
 - Executive Director, International Programs: Raymond P. Wallace
 - Director, Center for International Education: Kelly Moran
 - Director, American Language Programs: Thomas Tyner
 - Executive Director, Concord Campus: Robert Phelps
 - Operations Coordinator: Cecilia Zefeldt
 - Manager, Oakland Center: Kevin Kinney
- Associate Vice President, Research and Sponsored Programs: Jeffery Seitz
 - Director of Compliance: Sean Williams
 - Director, Grant Administration: Jennifer Cabrejas
 - Director, Center for Student Research: Jenny O

September 18, 2017

Erratum to *University Administration chapter* - College Deans, University Library, Department Chairs, and Program Director staff changes for AY 2017-2018

College of Letters, Arts, and Social Sciences

- Dean: Kathleen Rountree
 - Special Assistant to the Dean: Rosalinda Romero
- Associate Dean: Patricia Jennings, Interim
- Associate Dean: Dennis Chester
 - Assistant to the Associate Deans: Elizabeth Graw
- Chair, Department of Anthropology, Geography and Environmental Studies: David Larson
- Chair, Department of Communicative Sciences and Disorders: Shubha Kashinath
- Chair, Department of Criminal Justice Administration: Dawna Komorosky
- Chair, Department of Human Development and Women's Studies: Keri O'Neal
- Chair, Department of Political Science: Elizabeth Bergman
- Chair, Department of Public Affairs and Administration: Jay Umeh
- Chair, Department of Social Work: Rose Wong
- Chair, Department of Sociology and Social Services: Carl Stempel
- Director, International Studies Program: Andrew Wong

School of Arts and Media (SAM); Director: Thomas C. Hird

- Chair, Department of Art: Gwyan Rhabyt
- Chair, Department of Communication: Mary Cardaras
- Chair, Department of Music: Buddy O. James
- Chair, Department of Theatre and Dance: Darryl Jones
- Director, Multimedia Graduate Program: Gwyan Rhabyt

School of Global Humanities and Cultural Studies; Director: Vacant

- Chair, Department of English: Sarah Nielsen
- Chair, Department of Ethnic Studies: Carlos Salomon
- Chair, Department of History: Linda Ivey
- Chair, Department of Modern Languages and Literatures: Meiling Wu
- Chair, Department of Philosophy: Christopher Moreman
- Director, Liberal Studies Program: Jiansheng Guo

College of Business and Economics

- Dean, Interim: Xinjian Lu
 - Human Resources Coordinator: Wanda Davenport
- Associate Dean, Interim: Eric Fricke
- Director, Undergraduate Programs, Interim: Eric Fricke
- Director, Graduate Programs: C. Joanna Lee
- Chair, Department of Accounting and Finance: Nancy Mangold
- Chair, Department of Economics: Jed DeVaro
- Chair, Department of Management: Vishwanath Hegde
- Chair, Department of Marketing: C. Joanna Lee

College of Education and Allied Studies

- Dean: Carolyn Nelson
 - Assistant to the Dean: June Laherran
- Associate Dean: Patricia Irvine
- Chair, Department of Educational Leadership: Peg Winkelman
- Chair, Department of Educational Psychology: John M. Davis
- Chair, Department of Kinesiology: Paul Carpenter
- Chair, Department of Hospitality, Recreation and Tourism: Christopher Chamberlain
- Chair, Department of Teacher Education: Eric Engdahl

College of Science

- Dean: Jason Singley
 - Administrative Assistant to the Dean: Mariza Sobejana
- Associate Dean: Danika LeDuc
- Chair, Department of Biological Sciences: Brian Perry
- Chair, Department of Chemistry and Biochemistry: Ann McPartland
- Chair, Department of Computer Science: Matt Johnson

- Chair, Department of Earth and Environmental Sciences: Jean Moran
- Chair, Department of Mathematics: Julie Glass
- Chair, Department of Nursing and Health Sciences: Lynn Van Hofwegen
- Chair, Department of Physics: Erik Helgren
- Chair, Department of Psychology: David Fencsik
- Chair, Department of Statistics and Biostatistics: Lynn Eudey, Interim

School of Engineering. Chair: Saeid Motavalli

University Libraries

- Dean: John Wenzler
- Coordinator, Instructional Services: Thomas Bickley
- Coordinator, Research Services: TBA
- Coordinator, Information Literacy Services: Diana Wakimoto
- Chair, Library Faculty: Kyzyl Fenno-Smith

Student Center for Academic Achievement

- Director: Jen Nguyen

September 18, 2017

Erratum to *Department chapters* - Faculty Directory, New faculty for 2017-18

ADAMS, ANNIS LEE (2017), Senior Assistant Librarian, University Libraries: MLIS, University of Hawai'i at Manoa

BENNETT, BRADFORD (2017), Assistant Professor of Kinesiology: Ph.D., Stanford University

BLUNDELL, WESLEY (2017), Assistant Professor of Economics: Ph.D., University of Arizona

BORJA, MARK S. (2017), Assistant Professor of Chemistry and Biochemistry: Ph.D., University of California, San Francisco

CHANG, ANITA (2017), Assistant Professor of Communication: Ph.D., University of California, Santa Cruz

DING, KAI (2017), Assistant Professor of Economics: Ph.D., University of Minnesota

GAMBA, RYAN J. (2017), Assistant Professor of Health Sciences: Ph.D., University of California, Berkeley

GRIMM, KATHRYN (2017), Assistant Professor of Physics: Ph.D., State University of New York, Stony Brook

GUITON, PASCALE S. (2017), Assistant Professor of Biological Sciences: Ph.D., Washington University in St. Louis

GUZZARDO, MARIANA (2017), Assistant Professor of Human Development and Women's Studies: Ph.D., University of Connecticut

INGRAHAM, NATALIE (2017), Assistant Professor of Sociology and Social Services: Ph.D., University of California, San Francisco

JACKSON, SUMMER (2017), Assistant Professor of Criminal Justice: Ph.D., University of Oklahoma

KELLY, ANDREW (2017), Assistant Professor of Health Sciences: Ph.D., Northwestern University

KEMPER, TALYA D. (2017), Assistant Professor of Teacher Education: Ph.D., University of Washington

LITTLE, JERI LYNN (2017), Assistant Professor of Psychology: Ph.D., University of California, Los Angeles

McCOLLOW, MEAGHAN (2017), Assistant Professor of Educational Psychology: Ph.D., University of Washington

MENDOZA, ALBERT (2017), Assistant Professor of Kinesiology: Ph.D., University of Massachusetts, Amherst

NICHOLS, CASEY D. (2017), Assistant Professor of History: Ph.D., Stanford University

RAY, JYOTISHKA (2017), Assistant Professor of Management: Ph.D., University of Texas at Dallas

REYES, GERALD (2017), Assistant Professor of Educational Leadership: Ph.D., University of California, Berkeley

ROSARIO, JOSE (2017), Assistant Professor of Earth and Environmental Sciences: Ph.D., Cornell University

RUAN, XIAOJUN (2017), Assistant Professor of Computer Science: Ph.D., Auburn University

WILSON, ANNDRETTA (2017), Assistant Professor of Ethnic Studies: Ph.D., University of California, Los Angeles

XIE, PENG (2017), Assistant Professor of Management: degree, Georgia Institute of Technology

YAMAGUCHI, MASAHISA K. (2017), Assistant Professor of Management: Ph.D., University of Hawai'i at Manoa

YOU, YA (2017), Assistant Professor of Marketing: Ph.D., University of Central Florida

September 18, 2017

Erratum to *Health Sciences, Pre-Clinical Preparation Option, B.S. Option Discontinuance*:

The Pre-Clinical Preparation Option is closed and no longer accepting applications for this program as of summer 2017.

September 18, 2017

Erratum to *Mathematics, MS Option Requirements' descriptions:*

Option Requirements (45 units)

To complete the M.S. in Mathematics students must pursue one (1) of the three options available:

Mathematics, Applied **Pure** Mathematics Option, M.S. emphasizes coursework drawn from fundamental branches of mathematics: algebra, topology, and real and complex analysis.

Mathematics, Mathematics Teaching Option, M.S. is intended for those who hold secondary teaching credentials and who intend to pursue a career in secondary education.

Mathematics, Pure **Applied** Mathematics Option, M.S. is designed to expose students to various aspects of applied mathematics, while allowing some coursework in "pure" mathematics as well.

Students who intend to become community college teachers or go on to further graduate study should select Applied Mathematics or Pure Mathematics options.

September 18, 2017

Erratum to *Department Faculty Listings, In the following departments:*

Theatre and Dance

Professors

Ann Fajilan, M.F.A. University of California, Davis

Nina O. Haft, M.F.A. University of Wisconsin

Music

Professors

Kathleen Rountree, D.M. The Florida State University

Engineering

Associate Professors

Farzad Shahbodaghlou, Ph.D. Purdue University

Library

Librarian Emeritus

Douglas B. Highsmith, M.S.L.S. University of Illinois, Urbana-Champaign; M.B.A. Northern Illinois University

Associate Librarian Emeritus

Dana S. Edwards, M.S.L.I.S. University of Illinois, Urbana-Champaign; M.A. (English as a Foreign Language) Southern Illinois University, Carbondale

Psychology

Assistant Professors

Jeri Little, Ph.D. University of California, Los Angeles

Earth and Environmental Sciences

Assistant Professors

José Rosario, Ph.D. Cornell University

Computer Science

Assistant Professors

Xiaojun Ruan, Ph.D. Auburn University

Chemistry and Biochemistry

Professors

Monika Sommerhalter, Ph.D. Technische Universität Berlin (Germany)

Assistant Professors

Mark Borja, Ph.D. University of California, San Francisco

Biological Sciences

Professor Emeritus

Donald A. Gailey, Ph.D. University of California, Los Angeles

Associate Professors

Brian Perry (Chair), Ph.D. Harvard University

Assistant Professors

Pascale Guiton, Ph.D. Washington University in St. Louis

Sociology and Social Services

Professor Emeritus

Efren N. Padilla, Ph.D. Michigan State University

Assistant Professors

Natalie Ingraham, Ph.D. University of California, San Francisco

Human Development and Women's Studies

Professors

Steve Borish, Ph.D. Stanford University

Associate Professors

D. Xeno Rasmusson, Ph.D. University of Georgia

Assistant Professor

Mariana Guzzardo, Ph.D. University of Connecticut

History

Professor Emerita

Dee E. Andrews, Ph.D. University of Pennsylvania

Professors

Linda Ivey (Chair), Ph.D. Georgetown University

Associate Professors

Vahid Fozdar, Ph.D. University of California, Berkeley

Robert A. Phelps, Ph.D. University of California, Riverside

Assistant Professors

Casey Nichols, Ph.D. Stanford University

Ethnic Studies

Professors

Enrique Salmon, Ph.D. Arizona State University

Assistant Professor

Anndretta Wilson, Ph.D. University of California, Los Angeles

Criminal Justice

Assistant Professors

Summer Jackson, Ph.D. University of Oklahoma

Communication

Professors

Edward S. Inch, Ph.D. University of Washington

Grant Kien, Ph.D. University of Illinois at Urbana-Champaign

Associate Professors

Mary Cardaras (Chair), Ph.D. Northeastern University

Assistant Professors

Anita Chang, Ph.D. University of California, Santa Cruz

Teacher Education

Professors Emeriti

Bijan B. Gillani, Ed.D. University of Southern California

Shira Lubliner, Ed.D. University of San Francisco

Assistant Professors

Talya Kemper, Ph.D. University of Washington

Kinesiology

Professor Emerita

Penny McCullagh, Ph.D. University of Wisconsin

Associate Professors

Vanessa R. Yingling, Ph.D. University of Waterloo (Canada)

Assistant Professors

Bradford Bennett, Ph.D. Stanford University

Albert Mendoza, Ph.D. University of Massachusetts, Amherst

Educational Psychology

Assistant Professor

Meaghan McCollow, Ph.D., University of Washington

Educational Leadership

Assistant Professors

Gerald Reyes, Ph.D. University of California, Berkeley

Marketing

Professor Emeritus

Jagdish Agrawal, Ph.D. State University of New York at Buffalo

Assistant Professors

Ya You, Ph.D. University of Central Florida

Management

Professors Emeriti

Donna L. Wiley, Ph.D. University of Tennessee at Knoxville

Professors

Yi Karnes, Ph.D. Ohio State University

Assistant Professors

Jyotishka Ray, Ph.D. University of Texas at Dallas

Peng Xie, Ph.D. Georgia Institute of Technology

Masahisa Yamaguchi, Ph.D. University of Hawai'i at Manoa

Economics

Assistant Professors

Wesley Blundell, Ph.D., University of Arizona

Kai Ding, Ph.D. University of Minnesota

Mathematics

Professors Emeriti

Donald L. Wolitzer, Ph.D. Northeastern University

Health Sciences

Professor

Oscar Wambuguh, Ph.D. University of California, Berkeley

Art

Professors Emeriti

Grace Munakata, M.F.A. University of California, Davis

Accounting and Finance

Professors

Siu-Kuen Scott Fung, D.B.A. Boston University

September 18, 2017

Erratum to *M.A. Music*: correction to curricular requirements:

Capstone Requirements

A thesis or project is required:

- In the history-literature area, a standard research thesis (MUS 6910).
- In the composition-theory area, an original composition (MUS 6899).
- In the music education area, either a standard research thesis or project (MUS 6910) or (MUS 6899).
- In the performance area, a final graduate recital (*MUS 6899*). *Note: MUS 6899 is not a requirement for the recital*

Choose one of the following based on above:

- MUS 6899 - Project *Units: 1-3*
- MUS 6910 - University Thesis *Units: 1-6*