



Catalog Home

Welcome to the 2016-2017 Online Catalog

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 [link](#) at the top right of any page.

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.

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 now using smart links to icons, banners, and pictures that link to special information designed to help you learn more about CSU East Bay. They may link to web sites (or other URLs), Adobe PDFs, Microsoft PowerPoint presentations or Word Documents, Still images, Video or audio clips and Flash presentations.

Try the few examples to view:

- a message from President Leroy M. Morishita;
- a map of the Hayward Hills Campus;
- the CSUEB website; and/or
- more information on Semester Conversion 2018

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 might 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.

We are always seeking new ways to enhance and improve CSU 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.

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

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 2016

Sept. 19-20 Opening of fall quarter; faculty meetings, late advising

Sept. 21	Classes begin
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Nov. 11 Veterans Day observed (University closed)

Nov. 10	Last day to submit thesis to Academic Programs and Graduate Studies Office
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Nov. 24-25 Thanksgiving recess (University closed)

Dec. 4	Last day of classes
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Dec. 5-11 Final examinations

Dec. 11	End of quarter
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Dec. 12-Jan. 2 Academic recess

Winter Quarter 2017

Jan. 3 Opening of winter quarter; Classes begin

Jan. 16	Martin Luther King, Jr. Day (University closed)
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Feb. 17 Last day to submit thesis to Academic Programs and Graduate Studies Office

Mar. 12	Last day of classes
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Mar. 13-19 Final examinations

Mar. 19	End of quarter
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Mar. 20-Mar. 26 Academic recess

Spring Quarter 2017

Mar. 27 Opening of spring quarter; Classes begin

Mar. 31	Cesar Chavez Day (University closed)
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May 2 Last day to submit thesis to Academic Programs and Graduate Studies Office

May 29	Memorial Day observed (University closed)
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June 4 Last day of classes

June 5-11	Final examinations
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June 10, 11 Commencement Ceremonies

June 11	End of quarter
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June 12-18 Academic recess

Summer Quarter 2017

June 19 Opening of summer quarter; Classes begin

July 4	Independence Day Observed (University closed)
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Aug. 4 Last day to submit thesis to Academic Programs and Graduate Studies Office

Aug. 27	Last day of classes
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Aug. 28-Sept. 3 Final examinations

Sept. 3	End of quarter
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Sept. 4 Labor Day (University closed)

Sept. 4-18	Academic recess
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Programs of Study by Degree Type

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The University Catalog Program links below lists the program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential and certificate requirements. See the chapter for additional information about each college and the academic department including faculty information.

Non-Degree

Early Childhood Special Education (Added Authorization)

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*

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Bachelor of Arts

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, socio-cultural 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 socio-cultural (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, Archaeology/Biological 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*

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*

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, Art History Option, 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.

Art, Art Studio Option, 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*

Art, Graphic Design Option, 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*

Art, Multimedia Option, 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*

Art, Photography Option, 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 cross-listed COMM 3670.

- ART 3830 - Digital Imaging *Units: 4*
- ART 4600 - Image and Idea *Units: 4*
- ART 4620 - History of Photography *Units: 4*

or cross-listed 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*
- ART 2701 - Black and White Photography I *Units: 4*

- *Or other art studio course by advisement.*

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 cross-listed 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 cross-listed 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 cross-listed 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 cross-listed COMM 3680.

- ART 4745 - Senior Project in Photography *Units: 4*

Art, Pictorial Arts Option, 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*

Art, Spatial Arts Option, 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 I *Units: 4*
or cross-listed COMM 2701.
- 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*

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.

Biochemistry, 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*

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*

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.

Biological Science, Biology Education 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*

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*

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: 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*

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*

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.

Communication, Media Production 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.

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.

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.

Economics, General 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.

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*

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.

English, Creative Writing 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)*

English, Interdisciplinary Language, Literature, and Writing Studies 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.

English, Language and Discourse 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

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*

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 cross-listed 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.

Environmental Studies, Environment and Society 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*

Environmental Studies, Physical Environment 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.*

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.*

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 multi-gender 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.

Ethnic Studies, African 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*

Ethnic Studies, American Indian 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*

Ethnic Studies, Asian 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*

Ethnic Studies, Genders and Sexualities in Communities of Color 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.

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*

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
- Sign Language Minor
- Spanish Minor
- Chinese Language and Cultural Studies Minor

Elementary courses are offered also in Filipino and Japanese. 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 or for graduate work in the same fields. Students may utilize other languages and literatures offered in the department as part of a Special Major in various area studies.

An International Studies, B.A. is administered through the Department of Political Science (Undergraduate). The International Studies major consists of an integrated group of courses reflecting international aspects of various disciplines and requires intermediate level competency in a modern language. 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. An International Studies Minor is also offered. See International Studies under College and Department Information for further details.

With the growing involvement of the United States in international business and the increasingly multicultural character of American society itself, the importance of foreign languages in nearly every kind of occupation is considerable. The majors in foreign languages and literatures, therefore, may lead to teaching 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 whose 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 French Club, the German Club, the Tomodachi Club (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 quarter and yields twelve units of credit. The language laboratory is another useful feature of the department. In the laboratory students can listen to tapes which help improve their pronunciation, fluency, and comprehension. In addition, students are encouraged to take advantage of the California State University International Programs. They can take courses in a variety of universities abroad and apply them towards a degree at Cal State East Bay.

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 2101, MLL 2102, and MLL 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, MLL 2402, and MLL 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 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.

Geography (B.A.) 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.

Geography, B.A.

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.

Geology (B.A.) 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*

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.

History, Asian and Middle Eastern History Option, B.A.

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*

History, European History Option, B.A.

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*

History, History of California and the American West Option, B.A.

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*

History, Latin American History Option, B.A.

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*

History, United States History Option, B.A.

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*

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.

1. Anthropology (cultural or social)
2. Psychology
3. Sociology
4. Human biology or physical anthropology

5. Human or child development
6. Ethnic or area studies
7. 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.

Human Development, Adolescent Development 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*

Human Development, Adult Development and Gerontology 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*

Human Development, Adult Development and Gerontology 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*

Human Development, Childhood Development 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*

Human Development, Early Childhood 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*

Human Development, Early Childhood Development 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*

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*

Human Development, Women's Development 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*

Interdisciplinary Studies, B.A.

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.

International Studies, B.A.

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:

1. a discipline area (example: Anthropology, Economics, History);
2. a regional area (example: Asia, Europe, Latin America, Middle East); or
3. 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.

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 (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.

Student Learning Outcomes

Students graduating with a B.A. in Liberal Studies from Cal State East Bay will be able to:

1. 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;
2. apply critical methods of different disciplines to critically thinking about these issues;
3. communicate ideas clearly and persuasively in speech and writing;
4. work with others in teams collaboratively and productively, showing sensitivity and respect for others, and readiness to learn from others;
5. 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 major consists of 8 units;
 - the Liberal Arts Option consists of 68-76 units;
 - the Teacher Preparation Option consists of 123-135 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: 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.
- Liberal Studies, Liberal Arts Option, B.A

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:

1. Complete one (1) of the following **five** pre-approved 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.
2. 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)

Complete 20 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

Liberal Studies, Teacher Preparation 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 and 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 and 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:

1. Complete one (1) of the following **five** pre-approved 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.
2. 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)

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*

Music, B.A.

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 (MUS 3531-MUS 3590) 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: Orchestra 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*

Philosophy, B.A.

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.

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 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*

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 Physics, B.S. or Physics, B.A. degree will be able to:

1. Understand the fundamental principles of physics and be able to apply these core ideas to analyze physical processes;
2. Apply quantitative reasoning and critical thinking to solve complex problems, both theoretical and experimental in nature;
3. Independently learn new technical subjects and skills;
4. Design, construct, assess and troubleshoot experiments, quantitatively analyze the results using appropriate statistical procedures and tests of systematic errors, and draw meaningful conclusions;
5. Effectively communicate scientific ideas, both theoretical and experimental, to diverse audiences through written and oral presentations, both formal and informal;
6. 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, B.A.

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*

Physics, Physics Education Option, B.A.

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*

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***)

Political Science, B.A.

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.

Political Science, Pre-Law Option, B.A.

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 Relations 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.

Political Science, Public Affairs and Administration Option, B.A.

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.*

Psychology, B.A.

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 do therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industry, business, and the 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.

In Psychology's minor program, students can choose courses to complement training in business, communication, health and medicine, law and criminology, statistics, biology, and many other fields. Of special interest to students in that program might be our courses in developmental psychology, personality, cognitive processes, and learning.

Student Learning Outcomes

Students graduating with a B.A. or 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

B.A.:

- 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 and faculty research, in field trips, and in community volunteer placements.

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. major 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)

- 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*

And 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*

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: 5*

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 4900 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.

Sociology, B.A.

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:

1. 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.
2. engage (orally and in writing) in educated, open-minded discussions of diverse socio-cultural beliefs, perspectives, and norms.
3. possess knowledge of cultural differences and understand how power and privilege produce institutional inequalities and cultural constructions of socio-cultural differences.
4. work collaboratively in diverse groups, and when appropriate to their educational path, successfully complete service in community social service practicum.
5. 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.
6. 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, crime, international development, culture, social psychology, emotions, medical sociology, and minority and immigrant groups.

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 3420 - Social Inequality *Units: 4*
- SOC 3425 - Prejudice and Discrimination *Units: 4*
- SOC 3520 - Sociology of Race and Ethnic Relations *Units: 4*
- SOC 3710 - Social Policy *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*

Spanish, B.A.

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
- Sign Language Minor
- Spanish Minor
- Chinese Language and Cultural Studies Minor

Elementary courses are offered also in Filipino and Japanese. 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 or for graduate work in the same fields. Students may utilize other languages and literatures offered in the department as part of a Special Major in various area studies.

An International Studies, B.A. is administered through the Department of Political Science (Undergraduate). The International Studies major consists of an integrated group of courses reflecting international aspects of various disciplines and requires intermediate level competency in a modern language. 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. An International Studies Minor is also offered. See International Studies under College and Department Information for further details.

With the growing involvement of the United States in international business and the increasingly multicultural character of American society itself, the importance of foreign languages in nearly every kind of occupation is considerable. The majors in foreign languages and literatures, therefore, may lead to teaching 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 whose 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 French Club, the German Club, the Tomodachi Club (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 quarter and yields twelve units of credit. The language laboratory is another useful feature of the department. In the laboratory students can listen to tapes which help improve their pronunciation, fluency, and comprehension. In addition, students are encouraged to take advantage of the California State University International Programs. They can take courses in a variety of universities abroad and apply them towards a degree at Cal State East Bay.

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 2101, MLL 2102, and MLL 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, MLL 2402, and MLL 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 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.

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:

1. communicate in writing, orally, non-verbally, and visually in their area of emphasis.
2. conduct background research, evaluate scripts, and analyze performance for use in scholarly and performance applications.
3. employ historical, contemporary, and cultural performance techniques, as well as production technology appropriate to their area of emphasis.
4. reflect on performance techniques and concepts of other performers and apply high standards of reflection to their own production work.
5. 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.

Theatre Arts, Acting 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.

Theatre Arts, 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.

Theatre Arts, Dance 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*

Theatre Arts, Directing and Creative Vision 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*

Theatre Arts, Musical Theatre 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:

1. Applied singing courses (lessons) are by audition and might require a course fee. Option students are required to take regular singing lessons.
 2. 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.
 3. 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 non-majors 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*

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).

Programs of Study by Degree Type

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The University Catalog Program links below lists the program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential and certificate requirements. See the chapter for additional information about each college and the academic department including faculty information.

Bachelor of Fine Arts

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.

Art, Graphic Design 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*

Art, Multimedia 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*
- ART 2701 - Black and White Photography I *Units: 4*

- *or other 4-unit studio class by advisement.*

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*

Art, Photography 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*
- ART 2701 - Black and White Photography I *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*

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 2701 - Black and White Photography I *Units: 4 or cross-listed COMM 2701.*
- 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*

Programs of Study by Degree Type

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The University Catalog Program links below lists the program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential and certificate requirements. See the chapter for additional information about each college and the academic department including faculty information.

Bachelor of Science

Biochemistry, B.S.

Biochemistry (B.S.) 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.

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*

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 at 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.

Biological Science, Cell and Molecular Biology 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*

Biological Science, Ecology and Conservation Biology 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*

Biological Science, Forensic Science 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*

Biological Science, General Biology 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.)

Biological Science, Microbiology/Biomedical Laboratory Sciences 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*

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.

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/ussc . 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. lower division core courses with a grade of "C" or better for each course,
 2. upper division core courses, and
 3. 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 Administration, Accounting 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*

Business Administration, Business Economics 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.

Business Administration, Entrepreneurship 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*

Business Administration, Finance 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*

Business Administration, General Management 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)

Business Administration, Human Resources Management 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*

Business Administration, Information Technology Management (ITM) 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*

Business Administration, Marketing Management 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*

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*

Chemistry (B.S.) 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.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)

Chemistry, B.S., **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 two courses chosen from the following:

- CHEM 4311 - Advanced Organic Chemistry *Units: 4*
- CHEM 4412 - General Biochemistry *Units: 4*
- CHEM 4413 - General Biochemistry *Units: 4*
- CHEM 4430 - General Biochemistry Laboratory *Units: 4*
- CHEM 4521 - Elements of Chemical Thermodynamics *Units: 4*
- CHEM 4601 - Environmental Chemistry I *Units: 4*
- CHEM 4602 - Environmental Chemistry II *Units: 4*
- CHEM 4810 - Undergraduate Research *Units: 2*

Additional courses chosen from the above list or from the following:

- CHEM 4700 - Survey of Chemical Literature *Units: 2*
- CHEM 4811 - Senior Thesis *Units: 2*
- CHEM 4900 - Independent Study *Units: 1-4*

Chemistry, Forensic Science Option, B.S.

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*

Computer Engineering, B.S.

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.

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:

1. Apply knowledge of mathematics, science, and engineering.
2. Design and conduct experiments, as well as to analyze and interpret data.
3. 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.
4. Function on multidisciplinary teams.
5. Identify, formulate and solve engineering problems.
6. Understand professional and ethical responsibility.
7. Communicate effectively.

8. Understand the impact of engineering solutions in a global, economic, environmental, and societal context.
9. Recognize the need for, and have an ability to engage in, life-long learning.
10. Have knowledge of contemporary issues.
11. 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*

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.

A booklet containing sample schedules, as well as further information about the computer science major, is available in the Mathematics/Computer Science Student Service Center (North Science 337). This information may be obtained electronically at <http://www20.csueastbay.edu/csci/departments/math-cs/>

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.

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*

Option Requirements

The Computer Science B.S. degree major requires 84 units. In addition to the 56 core units required students must complete an additional 28 units of electives.

- Computer Science, B.S. (with **Computer Science Concentration Electives**)

Computer Science also offers three options that can complete the B.S. degree major, each requiring the 56 core units plus an additional 36 units for a total of 92 units:

- Computer Science, Computer Engineering Option, B.S.
- Computer Science, Networking and Data Communications Option, B.S.
- Computer Science, Software Engineering Option, B.S.

Computer Science, B.S. **Computer Science Concentration Electives (28 units)**

Students electing the Computer Science B.S. *without* an option must take an additional 28 units of Computer Science concentration courses. The selection of all elective Computer Science courses is important in giving the major a coherence, with depth in key areas. These electives must be chosen with the assistance and approval of a faculty advisor.

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 (12 units)

Any of the following courses may be used in meeting this 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.

Computer Science, Computer Engineering Option, B.S.

Computer Engineering Option (36 units)

The Option in Computer Engineering emphasizes the design of computer hardware and software and the close interaction between the two. It is an area of study with many issues, ranging from the design and development of large scale systems requiring an integration of hardware and software, to the design and deployment of special purpose devices used for control of physical processes. The option provides a foundation of knowledge for immediate application, but also provides a background for further study in the field.

Computer Engineering Concentration

Twenty-four (24) units required:

- CS 3432 - Digital Design Lab *Units: 4*
- CS 3434 - Microprocessor Lab *Units: 4*
- CS 3590 - Data Communications and Networking *Units: 4*
- CS 4435 - Computer Architecture II *Units: 4*
- CS 4432 - VLSI Circuit Design *Units: 4*
- PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism *Units: 4*

Computer Engineering Electives

Choice of three courses (12 units) from the following:

- CS 3560 - Introduction to Systems Programming *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*

Computer Science, Networking and Data Communications Option, B.S.

Networking and Data Communications Option (36 units)

Data communication and networking comprise an important, broad subfield of computer science. The Networking and Data Communications Option provides a concentration in the study of electronic networks. It emphasizes the analysis, design, and management of software that controls electronic networks. This option will enhance students' chances for immediate employment in the area while also preparing them for a flexible long-term career.

Upper Division Computer Science Concentration

Four courses (16 units) required

- CS 3560 - Introduction to Systems Programming *Units: 4*

Choice of three courses from the following:

- CS 3750 - Numerical Analysis I *Units: 4*
or cross-listed MATH 3750
- CS 4660 - Database Architecture *Units: 4*
- 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*

Networking Concentration

Two courses (8 units) required:

- CS 3590 - Data Communications and Networking *Units: 4*
- CS 4590 - Computer Networks *Units: 4*

Networking and Data Communications Electives

Three courses (12 units) chosen from:

- CS 3520 - Web Site Development *Units: 4*
- CS 4525 - Principles of Network Security *Units: 4*
- CS 4592 - Network Operations and Administration *Units: 4*
- CS 4594 - Broadband Networks and Communications *Units: 4*
- CS 4596 - Wireless and Mobile Networking *Units: 4*

Computer Science, Software Engineering Option, B.S.

Software Engineering Option (36 units)

Software engineering is an important subfield of computer science and is an area of intense activity, both in research and in applications. The Software Engineering Option emphasizes code development as an engineering science and gives students the understanding and skills necessary to participate in the systematic analysis and development of large, real-world software projects.

Upper Division Computer Science Concentration

Choice of four courses (16 units) from the following:

- CS 3560 - Introduction to Systems Programming *Units: 4* (if not used in category (c))
- CS 3590 - Data Communications and Networking *Units: 4*
- CS 4110 - Compiler Design *Units: 4*
- CS 4170 - Theory of Automata *Units: 4*
- CS 4245 - Analysis of Algorithms *Units: 4*

- MATH 3750 - Numerical Analysis I *Units: 4*

- or*

- CS 3750 - Numerical Analysis I *Units: 4*

Software Engineering Concentration

Three courses (12 units) required:

- CS 4310 - Software Engineering I *Units: 4*
- CS 4311 - Software Engineering II *Units: 4*
- CS 4320 - Software Testing and Quality Assurance *Units: 4*

Software Engineering Electives

Choice of two courses (8 units) from the following:

- CS 3520 - Web Site Development *Units: 4*
- CS 3560 - Introduction to Systems Programming *Units: 4*
- CS 4110 - Compiler Design *Units: 4*
- CS 4660 - Database Architecture *Units: 4*
- CS 4840 - Computer Graphics *Units: 4*
- CS 4865 - Graphical User Interface Programming Using a Rapid Application Development Tool *Units: 4*

Construction Management, B.S.

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:

1. 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),
2. have knowledge in broad areas of construction management beyond the core areas,
3. communicate effectively,
4. function in teams,
5. have the knowledge of sustainable building and construction techniques and relevant state regulations,
6. have an awareness of the complex environment (involving professional and ethical responsibilities) in which they will practice their profession,
7. educate themselves and be prepared for lifelong learning and professional development, and
8. 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*

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.

Criminal Justice Administration, Community Alternatives and Corrections 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*

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*

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 Science, Environmental Systems and Resource Management 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).*

Environmental Science, Life Science Option, B.S.

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*

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*

Geography, B.S.

Geography (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.S.) 61-73 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.

Geology, B.S.

Geology (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.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*

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.

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.

Health Sciences, Administration and Management 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*
- 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.

Health Sciences, Community Health 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*

Health Sciences, Environmental Health and Safety Option, B.S.

Environmental Health and Safety Option (18-34 units)

Eighteen (18) units required:

- BIOL 3405 - Microbiology *Units: 6*
- BIOL 3410 - Epidemiology *Units: 4*
- CHEM 2301 - Survey of Organic Chemistry *Units: 4*
- CHEM 2302 - Survey of Organic Chemistry *Units: 4*

Registered Environmental Health Specialist (EHS)

For students preparing to apply for the EHS Certification, you must select an additional 16 units from the following lists of courses. These courses are required for the certification exam but **not** for the health sciences major:

- ENVT 4100 - Environmental Impact Analysis *Units: 4*
- GEOG 3000 - Sustainable Resource Management *Units: 4*
- GEOG 4350 - Water Resources and Management *Units: 4*
- PHYS 4001 - Electromagnetism I *Units: 3*
- POSC 3460 - Environmental Law *Units: 4*
- POSC 4171 - Public Policy and the Environment *Units: 4*
- REC 3200 - Wellness Through Leisure *Units: 4*
- REC 3305 - Outdoor Living Skills *Units: 4*

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*

Hospitality and Tourism, B.S.

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)

Industrial Engineering, B.S.

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, 111 Market Place, Suite 1050, 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:

1. Apply knowledge of mathematics, science, and engineering.
2. Design and conduct experiments, as well as to analyze and interpret data.
3. 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.
4. Function on multidisciplinary teams.

5. Identify, formulate and solve engineering problems.
6. Understand professional and ethical responsibility.
7. Communicate effectively.
8. Understand the impact of engineering solutions in a global, economic, environmental, and societal context.
9. Recognize the need for, and have an ability to engage in, life-long learning.
10. Have knowledge of contemporary issues.
11. 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*

Interdisciplinary Studies, B.S.

Interdisciplinary Studies (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.

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.

Kinesiology, Exercise, Nutrition, and Wellness 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*

Kinesiology, Physical Activity 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*

Kinesiology, Physical Education Teaching 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)

Kinesiology, Social Justice 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*

Kinesiology, Special 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.

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*

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, Applied 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*

Mathematics, Mathematics Teaching 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.***

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*

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 five semesters 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 includes an additional 30 semester units and can be completed in 2 semesters of full time study or 4 semesters 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.

Nursing, Pre-Licensure 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*

Note: 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.

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 transferable 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 Clinical Nursing courses, students must complete two application forms:

1. The "CSU Application for Admission" and
2. The "Nursing Supplemental Applications."

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*

Note: 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.

Physics, B.S.

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 Physics, B.S. or Physics, B.A. degree will be able to:

1. Understand the fundamental principles of physics and be able to apply these core ideas to analyze physical processes;
2. Apply quantitative reasoning and critical thinking to solve complex problems, both theoretical and experimental in nature;
3. Independently learn new technical subjects and skills;
4. Design, construct, assess, and troubleshoot experiments, quantitatively analyze the results using appropriate statistical procedures and tests of systematic errors, and draw meaningful conclusions;
5. Effectively communicate scientific ideas, both theoretical and experimental, to diverse audiences through written and oral presentations, both formal and informal;
6. 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*

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 do therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industry, business, and the 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 more 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.

In Psychology's minor program, students can choose courses to complement training in business, communication, health and medicine, law and criminology, statistics, biology, and many other fields. Of special interest to students in that program might be our courses in developmental psychology, personality, cognitive processes, and learning.

Student Learning Outcomes

Students graduating with a B.A. or 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
- Employee Counselor and Trainer
- 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 and faculty research, in field trips, and in community volunteer placements.

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. major 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.S.) 75-94 units

The B.S. degree requires a total of 180 units.

- The core major consists of 22 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.***
- ***Students with appropriate background can go directly to MATH 1304. These students are excused from MATH 1300.***
- ***MATH 2304 is prerequisite to PHYS 1003.***

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:

- PSYC 2020 - Methods of Investigation in Psychology *Units: 4*

And 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*

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.

Psychology, Ergonomics and Human Factors 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.

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:

- 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 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

- 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.

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*

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, Recreation Management 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*

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*

Speech Pathology and Audiology, B.S.

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.

Statistics, B.S.

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:

1. apply basic computational skill in descriptive statistics and graphical displays; hypothesis testing and confidence intervals; modeling and error analysis;
2. communicate to others results involving descriptive statistics and graphical displays; hypothesis testing and confidence intervals; modeling and error analysis;
3. 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.

1. 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)
2. 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:

1. 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.
2. Up to twenty units in certain areas outside of Statistics may be applied toward the Statistics degree. (See Area of Emphasis requirement, III.2.)
3. 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 (0-26 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. Note prerequisites.

- 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:

1. 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.
2. 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.)

Programs of Study by Degree Type

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The University Catalog Program links below lists the program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential and certificate requirements. See the chapter for additional information about each college and the academic department including faculty information.

Certificates

Applied Statistics Certificate

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.

Prerequisites:

- STAT 2010 - Elements of Statistics for Business and Economics *Units: 5*
- STAT 3010 - Statistical Methods in the Social Sciences *Units: 4*
- STAT 3031 - Statistical Methods in Biology *Units: 4*
- STAT 3502 - Statistical Inference I *Units: 4*
- STAT 3601 - Statistics and Probability for Science and Engineering I *Units: 4*

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*

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.*

Biotechnology Certificate

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

Cartography and GIS Certificate

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*

Construction Planning and Control Certificate

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

1. 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,
2. relevant work experience, and
3. 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*

Construction Project Administration Certificate

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

1. 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,
2. relevant work experience, and
3. 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*

Creative Video Certificate

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*

Early Childhood Development Certificate

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.

Educational Technology Leadership Certificate

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*

Engineering Management Certificate

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*

Foundational Level General Science Certificate

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*

Foundational Mathematics Teaching Certificate

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.

Interdisciplinary Studies Special Certificate

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.

Mathematical Statistics Certificate

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

- STAT 6401 requires MATH 3300 and either STAT 3402 or STAT 4401
- STAT 6501 requires MATH 3300 or MATH 3100, and STAT 6205 or graduate standing in mathematics
- STAT 6510 requires MATH 2101 and STAT 3503

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 from the following (advisor approval required):

- STAT 6510 - Analysis of Variance *Units: 4*
- STAT 6860 - Selected Topics in Graduate Probability and Statistics *Units: 4* - STAT 6869

Public History Certificate

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.

Quality Management Certificate

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*

Spanish for the Professions Certificate

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*

Sustainable Resource Management Certificate

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*

Programs of Study by Degree Type

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The University Catalog Program links below lists the program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential and certificate requirements. See the chapter for additional information about each college and the academic department including faculty information.

Credentials

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

Administrative Services Internship Credential

Cohorted Credential Programs

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*

Preliminary Administrative Services (Tier I) Credential

Cohorted Credential Programs

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*

Professional Administrative Services (Tier II) Credential

Cohorted Credential Programs

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*

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 CSU Mentor);
- 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

Teaching Credential Programs

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*

Multiple Subject Credential: Blended Liberal Studies Major (Bachelor's Plus Early Pathway)

Teaching Credential Programs

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*

Multiple Subject Credential: Concurrent Education Specialist/Multiple Subject Credential Program

Teaching Credential Programs

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*

Multiple Subject Credential: Standard Pathway

Teaching Credential Programs

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*

Multiple Subject Credential: TK3 Pathway

Teaching Credential Programs

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.

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.

Preliminary Education Specialist Credential: Mild-Moderate Disabilities

Special Education Programs of Study: 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.

Preliminary Education Specialist Credential: Moderate-Severe Disabilities

Special Education Programs of Study: 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*

Speech-Language Pathology Services Credential

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.

Speech-Language Pathology (M.S.) 74-78 units

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.

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*

Bachelor/Credential

Bachelors Plus: Early Pathway Liberal Studies/Credential Program (BPEP)

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.

- 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.

Programs of Study by Degree Type

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The University Catalog Program links below lists the program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential and certificate requirements. See the chapter for additional information about each college and the academic department including faculty information.

Doctor of Education

Educational Leadership for Social Justice, Ed.D.

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.

Programs of Study by Degree Type

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The University Catalog Program links below lists the program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential and certificate requirements. See the chapter for additional information about each college and the academic department including faculty information.

Master of Arts

Biological Science, M.A.

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. Any student not admitted to the program because of incomplete application, deficiency, or failure to meet deadlines is urged to enroll in the university as an "Unclassified Post-baccalaureate" student pending completion and/or reconsideration of the application for classification.
6. 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.

Communication, M.A.

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)*

Economics, M.A.

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

English, M.A.

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.

English, Literature, Composition, Creative Writing Degree 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.

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*

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.

History, Generalist 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 in the Graduate/Post-Baccalaureate Admission and 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 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.

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.

History, Teaching 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.

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*

Multimedia, M.A.

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.

Music, M.A.

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).

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*

Programs of Study by Degree Type

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The University Catalog Program links below lists the program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential and certificate requirements. See the chapter for additional information about each college and the academic department including faculty information.

Master of Business Administration

Master of Science in Business Administration

Master of Public Administration

Master of Social Work

Master of Business Administration

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 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. (M.S.A.)**
- **Master of Science in Business Administration, Business Analytics Option, M.S.B.A.**
- **Master of Arts in Economics, M.A.**

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 Post-baccalaureate" 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.

Business Administration, Entrepreneurship 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*

Business Administration, Finance 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*

Business Administration, Global Innovators Option, M.B.A.

Global Innovators Option (12 units) - *Cohort Based Program Only*

Three courses will be selected from the following:

- ENTR 6485 - New Venture Development *Units: 4*
- FIN 6305 - New Venture Financing *Units: 4*
- MGMT 6440 - Global Strategy *Units: 4*
- MGMT 6150 - Global Supply Chain Management *Units: 4*
- MGMT 6460 - Strategic Management for a Sustainable Society *Units: 4*
- MGMT 6470 - Management of Technology and Innovation *Units: 4*
- MGMT 6560 - High Performance Management *Units: 4*
- MKTG 6401 - Marketing Research *Units: 4*

Business Administration, Human Resources and Organizational Behavior 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*

Business Administration, Information Technology Management 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*

Business Administration, M.B.A. No-Option Electives Option

Students pursuing an MBA degree with no option are required to take any three courses (12 units) at the 6100 level or beyond selected from ACCT, ECON, ENTR, FIN, ITM, MGMT, or MKTG. Courses cannot otherwise be used as part of their degree program.

Business Administration, Marketing Management 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*

Business Administration, Operations and Supply Chain Management 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 cross-listed ITM 6285

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*

Master of Science in Business Administration

Business Administration, Business Analytics Option, M.S.B.A.

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 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. (M.S.A.)**
- **Master of Science in Business Administration, Business Analytics Option, M.S.B.A.**
- **Master of Arts in Economics, M.A.**

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.S.B.A.) Program Information

Program Coordinators

Chongqi Wu and Jiming Wu, Department of Management

The Master of Science in Business Administration (M.S.B.A.), Business Analytics Option 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.B.A., Business Analytics Option 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.B.A., Business Analytics Option 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.B.A., Business Analytics Option 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.B.A. BA Option 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.B.A. students must fulfill the University Writing Skills Requirement (UWSR) and M.S.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.

Requirements for Graduation

To be eligible for the M.S.B.A. you must have been Advanced to Candidacy (see the Graduate/Post-Baccalaureate Admission and Degree Information chapter of the catalog) 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.

M.S.B.A. Coursework 45-53 units

Fundamental Coursework (0-8 units)

Fundamental coursework must be completed before enrolling in any M.S.B.A. required course. 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.B.A. 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 cross-listed 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*

Master of Public Administration

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:

1. 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;
2. Participate in and contribute to the policy process;
3. Analyze, synthesize, think critically, solve problems, and demonstrate an understanding of interpretive and quantitative research methodologies;
4. Articulate and apply a public service perspective;
5. 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:

1. Cumulative undergraduate GPA of at least 2.5;
2. 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);
3. 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;
4. Professional resume/vita, and
5. 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).

1. 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.
2. 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 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.

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 Administration, Health Care Administration 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*

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*

Master of Social Work

Social Work, M.S.W.

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:

1. 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.*
2. 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.*
3. 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.*
4. Advocate for clients, groups and communities in complex cultural, social, and political situations. *Advocacy.*
5. Act with self-awareness, cultural humility, and knowledge of diverse populations, with the commitment of providing culturally competent service. *Diversity.*
6. 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:

1. A completed departmental application form;
2. 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;
3. Three letters of recommendation (letters from prior instructors and/or supervisors preferred); and
4. 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

1. 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.
2. 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.)
3. 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:

1. 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.
2. Successful completion of all required departmental prerequisites.
3. 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*

Programs of Study by Degree Type

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The University Catalog Program links below lists the program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential and certificate requirements. See the chapter for additional information about each college and the academic department including faculty information.

Minors

Advertising Minor

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*

African American Studies Minor

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*

American Indian Studies Minor

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*

Anthropology Minor

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*

Art History Minor

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.

Art Studio Minor

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*

Art, Interactive Sculpture Minor

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.

Art, Photography Minor

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 cross-listed COMM 4600.

- COMM 4620 - History of Photography *Units: 4*

or cross-listed 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 cross-listed COMM 3630.

- ART 3640 - Special Topic in Photography *Units: 4*
- ART 3654 - Landscape Photography *Units: 4*
- ART 3661 - Advanced Portrait Photography *Units: 4*
- 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*
- ART 3660 - Portrait Photography *Units: 4*

or cross-listed COMM 3660.

- ART 3670 - Introduction to Studio Lighting *Units: 4*

or cross-listed COMM 3670.

- ART 3671 - Advanced Studio Lighting *Units: 4*

or cross-listed COMM 3671.

- ART 3680 - Photography Career Preparation *Units: 4*

or cross-listed COMM 3680.

- COMM 3100 - Introduction to Professional Video Production *Units: 4*
- COMM 3220 - Media Workshop: Print *Units: 2*
- COMM 3340 - Graphic Communication *Units: 4*

- COMM 3700 - Digital Photography and Photo Essay *Units: 4*

- COMM 3500 Photojournalism *Units: 4, or cross-listed ART 3500.*

Asian American Studies Minor

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*

Asian Studies Minor

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.

Biological Science Minor

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]

Biostatistics Minor

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.

Business Administration Minor

Minor Requirements (36-44 units)

Note: Students must have completed the prerequisites listed in the course description for any course they use to satisfy the following requirements.

Complete Alternative A or B

Alternative A

Lower Division Requirements:

Four courses (16 units) required:

- ACCT 2251 - Introduction to Financial 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*

Upper Division Requirements:

Three courses (12 units) required: Students must have completed the prerequisites listed in the course description for any course they select to satisfy the following requirements.

- MGMT 3600 - Theories of Management *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*
- ITM 3060 - Information Technology Management *Units: 4*

Elective Courses:

Choice of two courses (8 units) from the following:

- ACCT 4911 - Accounting Ethics *Units: 4*
- ECON 3107 - Global Economic Analysis *Units: 4*
- ECON 3551 - Managerial Economics and Business Strategy *Units: 4*
- FIN 3300 - Financial Management *Units: 4*
- MGMT 3100 - Decision Science *Units: 4*
- MGMT 3560 - Business and Professional Ethics *Units: 4*
- MGMT 3614 - Organizational Behavior *Units: 4*
- MGMT 3620 - Operations Management *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*
- MGMT 4670 - Multinational Business *Units: 4*

Note: Business Administration courses are those with Accounting (ACCT), Entrepreneurship (ENTR), Finance (FIN), Information Technology Management (ITM), Management (MGMT), and Marketing (MKTG) prefixes.

Alternative B

Lower Division Requirements:

Four courses (16 units) required:

- ACCT 2251 - Introduction to Financial Accounting *Units: 4*
- ACCT 2701 - Legal Environment of Business *Units: 4*
- CS 1160 - Introduction to Computer Science I *Units: 4* (or any other introductory course in computer programming)
- ECON 2301 - Principles of Microeconomics *Units: 4*

Upper Division Requirements:

Five courses (20 units) required. Students must have completed the prerequisites listed in the course description for any course they select to satisfy the following requirements.

- ACCT 2253 - Introduction to Managerial Accounting *Units: 4*
- Four (4) units of ITM upper division coursework, with consent of department
- MGMT 3614 - Organizational Behavior *Units: 4*
- MKTG 3401 - Marketing Principles *Units: 4*

And choose one course from the following:

- INDE 3140 - Engineering Economy *Units: 4*
- ECON 2302 - Principles of Macroeconomics *Units: 4*

Elective Courses

Choice of two courses (8 units) from the following:

- ECON 3551 - Managerial Economics and Business Strategy *Units: 4*
- FIN 3300 - Financial Management *Units: 4*
- MKTG 3495 - Business Communication *Units: 4*

Or one from this group:

- ECON 3107 - Global Economic Analysis *Units: 4*
- MGMT 4670 - Multinational Business *Units: 4*

Or one from this group:

- ACCT 4911 - Accounting Ethics *Units: 4*
- MGMT 4500 - Business, Government, and Society *Units: 4*

Note: Students completing the Business Administration Minor with the intention of possibly changing to the Business Administration Major or entering a master's program in Business Administration are urged to take all courses for a "letter grade" (not CR/NC) and discuss their selection of courses for the Business Administration Minor with an advisor in the College of Business and Economics Undergraduate Student Success & Service Center. Such students, for example, should choose Alternative A to satisfy their lower division requirements. Engineering students completing this minor with the intention of entering the M.B.A. program should consult an advisor in the Department of Engineering.

California Studies Minor

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.***

Chemistry Minor

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*

Chinese Language and Cultural Studies Minor

Minor Requirements (32 units)

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*

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*

Communication Minor

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.

Computer Science Minor

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.

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*

Creative Writing Minor

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.

Criminal Justice Administration Minor

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*

Dance Minor

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.

Early Childhood Education Minor

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*

Economics Minor

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*

English Minor

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*

Environmental Studies Minor

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.

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*

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

Ethnic Studies Minor

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: 4*
- 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*

French Minor

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)

Genders and Sexualities in Communities of Color Minor

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*

Geography Minor

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*

Geology Minor

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*

German Minor

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*

Health Sciences Minor

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.

History Minor

Minor Requirements (32 units)

The minor consists of 32 units. HIST 3400 may not be counted towards the minor.

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*

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)

Hospitality and Tourism Minor

Minor Requirements (32 units)

The minor consists of 32 units.

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*

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*

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.

Information Technology Management Minor

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*

International Business Minor

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.

International Studies Minor

Minor Requirements (28-40 units)

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*

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.

Italian Minor

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*

Kinesiology Minor

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.

Latino/a and Latin American Studies Minor

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*

Marketing Minor

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).

Mathematics Minor

Minor Requirements (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 course which may include any upper division mathematics courses not already taken for the minor.

Or

STAT 3401, STAT 3502 or CS 4170, CS 4245 (but not MATH 4012, MATH 4013, MATH 4014, MATH 4030).

Multimedia Minor

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*

Music Minor

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: 1²* 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: 1²*
- MUS 2312 - Intermediate Class Piano II *Units: 1²*
- MUS 2313 - Intermediate Class Piano III *Units: 1²*

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.***

Philosophy Minor

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.

Physics Minor

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*

Political Science Minor

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.

Psychology Minor

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. The minor consists of 29-35 units.

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.)

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*

Recreation Minor

Minor Requirements (28 units)

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*

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*

Sign Language Minor

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*

Sociology Minor

Minor Requirements (28 units)

The minor consists of 28 units and must be declared by the end of Junior year.

Lower Division (4 units)

- SOC 1000 - Introduction to Sociology *Units: 4*

or

- SOC 1002 - Introduction to Sociology of Individual and Society *Units: 4*

Upper Division (8 units)

- SOC 3000 - Introduction to Sociological Research *Units: 4*
- SOC 3310 - Sociological Theory *Units: 4*

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.)

Software Development Minor

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*

Spanish Minor

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.

Speech Pathology and Audiology Minor

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*

Statistics Minor

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*
- MATH 1305 - Calculus II *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*

Theatre Minor

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.

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.

Urban Studies Minor

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

Women's Studies Minor

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.

Core Courses (8-12 units)

- WOST 1001 - Perspectives on Women *Units: 4*
- WOST 1002 - Women in Contemporary Society *Units: 4*

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*

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.

Programs of Study by Degree Type

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The University Catalog Program links below lists the program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential and certificate requirements. See the chapter for additional information about each college and the academic department including faculty information.

Master of Science

Accountancy, M.S.

CBE Graduate Programs, M.A.; M.B.A.; M.S.A.; M.S.B.A.

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 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. (M.S.A.)**
- **Master of Science in Business Administration, Business Analytics Option, M.S.B.A.**
- **Master of Arts in Economics, M.A.**

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:
 1. 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.
 2. A TOEFL (Test of English as a Foreign Language) score of 550 (213 computer-based or 79 Internet-based) or above.
 3. 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*

Biological Science, M.S.

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. Any student not admitted to the program because of incomplete application, deficiency, or failure to meet deadlines is urged to enroll in the university as an "Unclassified Post-baccalaureate" student pending completion and/or reconsideration of the application for classification.
6. 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.

Biostatistics, M.S.

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:

1. 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;
2. Derive basic theory and communicate to others results involving biostatistical data analysis;
3. Formulate problem solutions, produce appropriate computer code and to interpret results.

Admission Requirements

1. A baccalaureate degree or equivalent.
2. Differential and Integral Calculus, including multiple integration and infinite series.
3. Departmental approval.
4. 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

1. Completion of at least 15 quarter units of approved work beyond the baccalaureate, with an average of "B" (3.0) or higher.
2. 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 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

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

Note: 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.

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 Biochemistry Option, M.S.

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*

Chemistry, Plan A Option, M.S.

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*

Chemistry, Plan B Biochemistry Option, M.S.

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*

Chemistry, Plan B Option, M.S.

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*

Computer Networks, M.S.

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 any one of the four 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:

1. Exhibit mastery of advanced computer science theory as applied to the field of computer networks.
2. Employ current techniques, skills, tools, and coding practices necessary for application and system development.
3. Apply critical thinking and problem solving skills by analyzing problems, designing solutions, and evaluating results.
4. Demonstrate communication skills in both written and oral form, and work in a team environment.
5. 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 have their scores on the general portion of Graduate Record Examination (GRE) submitted directly to the department. Submission of scores on the Computer Science portion is optional.

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

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*

Computer Science, M.S.

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. Most 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:

1. apply advanced computer science theory to problems;
2. demonstrate advanced understanding of the mechanisms, components and architecture of current computing systems;
3. generate and process useful representations of knowledge;
4. critique, plan and produce complex software applications, and
5. 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 have their scores on the general portion of the Graduate Record Examination (GRE) submitted directly to the department. 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 all the computer science courses is also required.

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.

Construction Management, M.S.

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:

1. 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),
2. have knowledge in broad areas of construction management beyond the core areas,
3. communicate effectively,
4. function in teams,
5. have the knowledge of sustainable building and construction techniques and relevant state regulations,
6. have an awareness of the complex environment (involving professional and ethical responsibilities) in which they will practice their profession,
7. have the ability to educate themselves and be prepared for lifelong learning and professional development, and
8. 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

1. a baccalaureate degree from an accredited university with a minimum overall GPA of 2.5 (4.0 basis) in their undergraduate work,
2. relevant work experience, and
3. 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:

1. personal statement explaining their reasons for wanting to pursue the M.S. in Construction Management degree,
2. a resume detailing their professional and academic achievements, and
3. 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.

1. 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.
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.

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. One bound copy of the written component of the Project is required for the department.

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

Counseling (M.S.) 111-191 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 (58-65 Units)**
 - 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 (59 Units)**
 - 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 (131-132 Units)**
 - 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 (53-59 units)

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 5610 - Microcounseling I *Units: 2*
- EPSY 6023 - Research in Applied Behavioral Sciences *Units: 4*
- EPSY 6025 - Psychopathology of Childhood *Units: 4*
- EPSY 6302 - Individual Development *Units: 4*
- EPSY 6400 - Family Psychotherapy *Units: 4*
- EPSY 6403 - Psychotherapy for Children *Units: 4*
- EPSY 6406 - Seminar in Human Sexuality *Units: 2*
- EPSY 6750 - Foundations of Counseling *Units: 4*
- EPSY 6752 - Cross-Cultural Counseling *Units: 4*
- EPSY 6762 - Group Procedures and Facilitation *Units: 4*
- EPSY 6764 - Intervention Strategies for Systems and Organizational Change *Units: 4*
- EPSY 6775 - Community Mental Health Counseling *Units: 4*
- EPSY 6785 - Law and Ethics in Counseling *Units: 3*
- EPSY 6999 - Issues in Educational Psychology *Units: 2 (repeat for 6-12 units)*

Option Requirements

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.

Counseling, Clinical Child/School Psychology Option, M.S.

Clinical Child/School Psychology Option (131-132 units)

Faculty: Dr. John M. Davis, Dr. Greg Jennings (Coordinator), Dr. Oanh Tran

Required Courses for the Option

- EPSY 6029 - Seminar in Chemical Dependency *Units: 2*
- EPSY 6205 - Advanced Pupil Personnel Specialist *Units: 4*
- EPSY 6301 - Pediatric Psychology *Units: 4*
- EPSY 6500 - Cognitive Behavior Therapy *Units: 4*
- EPSY 6600 - Clinic Rounds *Units: 3 (repeat x3 for 9 units)*
- EPSY 6610 - Graduate Seminar I *Units: 2*
- EPSY 6630 - Graduate Seminar III *Units: 2*
- EPSY 6669 - Seminar in Mental Health Consultation *Units: 3*
- 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 6746 - Neuropsychology of Learning Disabilities *Units: 4*
- EPSY 6758 - Practicum in Counseling *Units: 3*
- EPSY 6765 - Psychological and Counseling Services in Schools and Higher Education *Units: 2*
- EPSY 6770 - Internship *Units: 2-6 (repeat x3 for 18 units)*
- EPSY 6783 - Seminar: Contemporary Issues *Units: 2-3*
- EPSY 6784 - Pharmacology and Counseling *Units: 3*
- EPSY 6786 - Child Abuse Assessment *Units: 1*
- EPSY 6788 - Spousal/Partner Abuse *Units: 2*
- EPSY 6810 - Advanced Graduate Seminar I *Units: 2*
- EPSY 6820 - Advanced Graduate Seminar II *Units: 2*
- EPSY 6880 - Advanced Internship *Units: 2-15 (repeat x3 for 45 units)*
- EPSY 6911 - Developmental Assessment Practicum *Units: 4*
- EPSY 6912 - Personality Assessment *Units: 4*

Counseling, Marriage and Family Therapy Option, M.S.

Marriage and Family Therapy Option (58-65 units)

Faculty: Dr. Randi Cowdery and Dr. Terry Soohoo

Required Courses for the Option

- EPSY 5620 - Microcounseling II *Units: 2*
- EPSY 6026 - Psychopathology in Adulthood *Units: 4*
- EPSY 6029 - Seminar in Chemical Dependency *Units: 2*
- EPSY 6200 - Grief Counseling *Units: 2*
- EPSY 6402 - Couples Therapy *Units: 4*
- EPSY 6701 - Appraisal Procedures: Standardized *Units: 4*
- EPSY 6711 - Career-Life Planning *Units: 4*
- EPSY 6751 - Counseling and Psychotherapy Theory *Units: 4*
- EPSY 6758 - Practicum in Counseling *Units: 3*
- EPSY 6770 - Internship *Units: 2-6 (repeat x3 for 18 units)*
- EPSY 6783 - Seminar: Contemporary Issues *Units: 2-3*
- EPSY 6784 - Pharmacology and Counseling *Units: 3*
- EPSY 6786 - Child Abuse Assessment *Units: 1*
- EPSY 6788 - Spousal/Partner Abuse *Units: 2*
- EPSY 6899 - Project *Units: 2-5*
- EPSY 6900 - Independent Study *Units: 1-4*

Counseling, School Counseling Option, M.S.

School Counseling Option (59 units)

Faculty: Dr. Rolla E. Lewis, Dr. Janet Logan, and Dr. Angela Tang (Coordinator)

Required Courses for the Option

- EPSY 6029 - Seminar in Chemical Dependency *Units: 2*
- EPSY 6205 - Advanced Pupil Personnel Specialist *Units: 4*
- EPSY 6500 - Cognitive Behavior Therapy *Units: 4*
- EPSY 6600 - Clinic Rounds *Units: 3*
- EPSY 6669 - Seminar in Mental Health Consultation *Units: 3*
- 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*
- EPSY 6711 - Career-Life Planning *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 6770 - Internship *Units: 2-6 (this course must be taken three (3) times for a total of 9 units) see your advisor for more information.*
- EPSY 6784 - Pharmacology and Counseling *Units: 3*
- EPSY 6786 - Child Abuse Assessment *Units: 1*
- EPSY 6788 - Spousal/Partner Abuse *Units: 2*

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:

1. have a GPA of 3.0 or better in all upper division work in the major and in all post-baccalaureate work;
2. 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.);
3. 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:

1. been Advanced to Candidacy;
2. 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;
3. 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);
4. 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;
5. 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;
6. 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.

Education, Curriculum 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:

1. 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);
2. Develop an in-depth understanding of contemporary issues in curriculum and instruction in an area of professional interest;
3. Utilize a variety of bibliographic tools to write a comprehensive review of the literature for a topic of professional interest; and
4. 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.

Education, Early Childhood Education Option, M.S.

Education (M.S.) 45 units

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:

1. develop an in-depth knowledge base of effective preschool models of curriculum, pedagogy and working with families;
2. complete a professional practicum in an Early Childhood setting (including the delivery of professional development, advocacy and mentoring);
3. utilize a variety of bibliographic tools to write a comprehensive review of the literature for a topic of professional interest;
4. 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*

Education, Educational Technology Leadership Option, M.S.

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:

1. Identify, describe, and evaluate a variety of factors that influence integration of technology into K-12 curricula in California public schools;
2. Design and develop a variety of technology-based projects and utilize the projects in their courses to write a comprehensive review of e-learning topics that relate to education as well as the industry;
3. Propose and complete a research project investigating a topic of professional interest as it relates to education and technology; and
4. Develop an in-depth understanding of current issues in technology and education in one of the following related to technology topics: e-learning, 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.

Education, Reading Instruction Option, M.S.; and Reading Certificate (Added Authorization)

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:

1. 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.
2. **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:

1. 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;
2. 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;
3. 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
4. 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.

Educational Leadership, M.S.

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, vice-principal, 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

Engineering Management, M.S.

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:

1. to prepare future managers of technical enterprises;
2. to enable current and future engineers/scientists to assume leadership positions as they advance in their careers; and
3. 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."

1. 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.
2. 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.)
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.

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 cross-listed INDE 3601

or STAT 5601/ or cross-listed 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 6899 - Project *Units: 1-4* or pass the comprehensive examination and complete an additional 4-unit elective course.

Geology, M.S.

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

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 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 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.

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)*

Health Care Administration, M.S.

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:

1. Communicate clearly and concisely with internal and external customers, to establish and maintain relationships, and to facilitate constructive interactions with individuals and groups
2. 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
3. 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
4. Demonstrate an understanding of the health care system and the environment in which health care managers and providers function
5. 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. Courses are offered in all quarters, including the summer quarter. 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:

1. Cumulative undergraduate GPA of at least 2.5;
2. 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);
3. 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;
4. Professional resume/vita;
5. 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.

1. 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.
2. 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.)
3. 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*

Kinesiology, M.S.

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:

1. Demonstrate the ability to synthesize and apply perspectives from the humanities, and the social-, behavioral-, and life-sciences.
2. Use disciplinary knowledge to design and implement innovative professional application.
3. Characterize thought processes by the exploration of discipline-relevant issues, ideas, artifacts, and events before accepting or formulating a perspective.
4. Use contextually-grounded and compelling content to articulate physical activity issues in both oral and written form.
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

- 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
- 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.

1. Maintain a 3.00 grade point average in all graduate work completed.
2. Complete KIN 6000 at the first opportunity and no later than the first three quarters in the program.
3. Submit to the graduate coordinator an approved program of study developed in conjunction with the appropriate faculty committee.
4. 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:

1. Completion of a minimum of 45 quarter units of approved upper division and graduate courses
2. A minimum grade point average of 3.00
3. Completion of a Culminating Experience (specific requirements for the Culminating Experience Project are described in the Graduate Handbook).
4. 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*

Marine Science, M.S.

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*

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:

- 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, Applied Mathematics Option, M.S.

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.

Mathematics, Mathematics Teaching Option, M.S.

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*

Mathematics, Pure Mathematics Option, M.S.

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

Recreation and Tourism, M.S.

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*

Special Education (M.S.) 46-50 units

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.

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*

Special Education, Mild-Moderate Disabilities Option, M.S.

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*

Special Education, Moderate-Severe Disabilities Option, M.S.

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*

Speech-Language Pathology, M.S.

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.

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:

1. 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.
2. Derive and understand basic theory underlying these methodologies
3. Formulate and model practical problems for solutions using these methodologies
4. Produce relevant computer output using standard statistical software and interpret the results appropriately
5. Communicate statistical concepts and analytical results clearly and appropriately to others; and
6. Understand theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Admission Requirements

1. A baccalaureate degree or equivalent.
2. Differential and Integral Calculus, including multiple integration and infinite series (MATH 1304, MATH 1305, MATH 2304).
3. Departmental approval.
4. 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

1. Completion of at least 15 quarter units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
2. 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.

Statistics, Actuarial Science 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*

Statistics, Applied 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 to four graduate electives in statistics or biostatistics, approved by a graduate advisor. *Units: 12-16*

Statistics, Computational 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)

Statistics, M.S. (with electives option)

Electives

Students NOT pursuing an option must complete 20 units of advanced courses, chosen with the advanced written approval of an advisor.

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*

Programs of Study by Degree Type

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The University Catalog Program links below lists the program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential and certificate requirements. See the chapter for additional information about each college and the academic department including faculty information.

Single Subject Preparation

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

Foundational-level Mathematics, 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*

Mathematics, 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*

Music, Single Subject Matter Preparation Program

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*

Physical Education, 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.

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*

Online Degree Programs

- [About Online Learning at CSUEB](#)
- [Online Degree Programs](#)
- [Online Classes Offered This Quarter](#)
- [Online Degree Program State Authorization](#)

About Online Learning at Cal State East Bay

California State University, 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 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.

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. To see the class "notes":

- Click the green arrow for the class you wish to view;
- Click the bright blue section number hyperlink [for example: 02-LEC(1234)] and scroll down to "Notes".

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	Department of Human	College of Letters, Arts,

Development and Gerontology Online Option, B.A.	Development and Women's Studies	and Social Sciences
Human Development, Early Childhood Development Online Option, B.A.		
Human Development, Women's Development Online Option, B.A.		

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 and Options

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.

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

ACCT 2253 - Introduction to Managerial Accounting

ACCT 2701 - Legal Environment of Business

ACCT 3170 - Accounting Information Systems I

ACCT 3210 - Cash Management

ACCT 3211 - Intermediate Financial Accounting I

ACCT 3212 - Intermediate Financial Accounting II

ACCT 3213 - Intermediate Financial Accounting III

ACCT 3220 - Tax Accounting: Fundamentals and Individuals

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

ACCT 3230 - Cost Management

ACCT 3280 - Accounting for Governmental and Nonprofit Entities

ACCT 3898 - Cooperative Education

ACCT 3999 - Issues in Accounting

ACCT 4170 - Accounting Information Systems II

ACCT 4211 - Advanced Financial Accounting

ACCT 4220 - Tax Accounting: Corporate Tax

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

ACCT 4223 - Business Law for Accountants

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

ACCT 4250 - Auditing I

ACCT 4251 - Auditing II

ACCT 4252 - Information Technology Audit

ACCT 4253 - Internal Auditing

ACCT 4254 - Forensics Accounting and Fraud Examination

ACCT 4370 - International Accounting

ACCT 4900 - Independent Study

ACCT 4911 - Accounting Ethics

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

ACCT 6202 - Corporate Tax

ACCT 6215 - Managerial Accounting

ACCT 6222 - Income Taxation of Partners and Partnerships

ACCT 6223 - Federal Tax Research, Procedures, and Penalties

ACCT 6224 - Advanced Corporate Taxation

ACCT 6226 - State and Local Taxation

ACCT 6227 - S Corporations and Other Flow-Through Entities

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

ACCT 6258 - Tax Planning for Individuals

ACCT 6410 - Tax Accounting Periods and Methods

ACCT 6420 - Fundamentals of Federal Income Taxation

ACCT 6470 - International Tax: Inbound

ACCT 6472 - International Tax: Outbound

ACCT 6510 - Accounting Theory

ACCT 6520 - Strategic Cost and Performance Management

ACCT 6540 - Financial Reporting for Special Industries

ACCT 6541 - Healthcare Accounting

ACCT 6542 - Financial Reporting for Banks and Financial Institutions

ACCT 6550 - Advanced Accounting Information Systems

ACCT 6560 - Financial Statement Analysis and Business Valuation

ACCT 6570 - Financial Reporting Systems: Oracle Financial Applications I

ACCT 6571 - Financial Reporting Systems: Oracle Financial Applications II

ACCT 6580 - International Financial Reporting and Standards

ACCT 6590 - Attestation and Information Systems Audit

ACCT 6600 - Mergers and Acquisitions

ACCT 6611 - Financial Reporting and IFRS I

ACCT 6612 - Financial Reporting and IFRS II

ACCT 6613 - Financial Reporting and IFRS III

ACCT 6620 - Advanced Topics in Financial Accounting

ACCT 6630 - Governmental and Not-for-profit Accounting

ACCT 6640 - Auditing Theory and Practice I

ACCT 6650 - Auditing Theory and Practice II

ACCT 6660 - Accountants' Ethics and Professional Responsibilities

ACCT 6670 - Business Law and Regulations

ACCT 6707 - Cross-Border Transfer Pricing

ACCT 6898 - Cooperative Education

ACCT 6899 - Project

ACCT 6900 - Independent Study

ACCT 6909 - Departmental Thesis

ACCT 6999 - Issues in Accounting

Anthropology

ANTH 1000 - Introduction to Anthropology

ANTH 1010 - The Human Adaptation

ANTH 1100 - Introduction to Biological Anthropology

ANTH 1200 - Introduction to Archaeology

ANTH 1300 - Introduction to Cultural Anthropology

ANTH 2801 - Language and Thought: Anthropological Perspectives

ANTH 3000 - Anthropology in the Modern World

ANTH 3999 - Issues in Anthropology

Anthropology: Applied

ANTH 3710 - Anthropology and Museums

ANTH 3720 - Medical Anthropology

ANTH 3745 - Human Sexuality: Anthropological Perspectives

ANTH 3750 - Women in Cross-Cultural Perspective

ANTH 3760 - Media in Cross-Cultural Perspective

ANTH 3765 - Business Anthropology

ANTH 3785 - Anthropology in Action

ANTH 3898 - Cooperative Education

Anthropology: Archaeology

ANTH 3200 - Science in Archaeology

ANTH 3250 - Precolumbian America: Aztec, Inca, Maya

Anthropology: Biological

ANTH 3100 - Human Evolution I

ANTH 3101 - Human Evolution II

ANTH 3110 - Primate Social Behavior

Anthropology: Biological Archaeology

ANTH 4240 - Data Analysis in Archaeology

ANTH 4250 - Field Course in Archaeology

ANTH 4260 - Human Osteology Laboratory

ANTH 4280 - Forensic Osteology

Anthropology: Graduate

ANTH 6100 - Seminar in Biological Anthropology

ANTH 6200 - Seminar in Archaeology/Prehistory

ANTH 6251 - Advanced Archaeological Field Methods

ANTH 6260 - Graduate Osteology

ANTH 6350 - Advanced Ethnographic Methods

ANTH 6400 - Seminar in Socio-Cultural Anthropology

ANTH 6700 - Applied Anthropology

ANTH 6760 - Internship Experience

ANTH 6770 - Internship Planning and Analysis

ANTH 6800 - Seminar in Linguistic Anthropology

ANTH 6898 - Cooperative Education

ANTH 6900 - Independent Study

ANTH 6905 - Directed Readings in Anthropology

ANTH 6909 - Departmental Thesis

ANTH 6910 - University Thesis

ANTH 6999 - Issues in Anthropology

Anthropology: Regional and Ethnographic

ANTH 3500 - North American Indians

ANTH 3505 - Indians of California

ANTH 3510 - South American

ANTH 3545 - China

ANTH 3555 - Cultures of East Asia

ANTH 3580 - Middle East

Anthropology: Sociocultural

ANTH 3400 - Social Anthropology

ANTH 3410 - Folklore

ANTH 4310 - Field Course in Ethnography

ANTH 4900 - Independent Study

ANTH 4910 - Pro-Seminar in Anthropology

Anthropology: Symbolic and Religious

ANTH 3800 - Language and Culture

ANTH 3801 - Language in the Modern World

ANTH 3840 - Folk Religion and Magic

Art

ART 3999 - Issues in Art

ART 4900 - Independent Study

Art: History

ART 1010 - Introduction to World Art History

ART 1081 - History of Animation

ART 1085 - History of Games

ART 3010 - Latin American Art

ART 3035 - Modern Art

ART 3040 - Art in the United States

ART 3085 - Theory of Games

ART 3227 - Women in Art

ART 3230 - Art and Philosophy of the East

ART 3400 - History of Art and Technology

ART 3411 - Advanced Survey of World Art

ART 4005 - Histories of Film

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

ART 4060 - History of Graphic Design

ART 4070 - Currents in New Media

ART 4071 - Contemporary Art

ART 4620 - History of Photography

ART 4621 - History of Photography Since 1960

ART 4900 - Independent Study

Art: Studio

ART 1020 - The Creative Process

ART 1112 - Ceramics I

ART 1113 - Drawing I

ART 1114 - Painting I

ART 1115 - Printmaking I

ART 1116 - Introduction to Sculpture

ART 1121 - Introduction to Bookmaking

ART 2025 - Basics of New Media

ART 2146 - Storyboarding

ART 2630 - Digital Photography I

ART 2701 - Black and White Photography I

ART 2702 - Black and White Photography II

ART 2805 - Computers and Print

ART 2810 - Principles of Design

ART 2830 - Web Design

ART 2851 - Introduction to Game Design and Scripting

ART 3121 - Advanced Bookmaking

ART 3141 - Drawing II

ART 3142 - Figure Drawing

ART 3144 - Drawing Lab

ART 3145 - Illustration

ART 3212 - Painting II

ART 3213 - Painting III

ART 3215 - Figure Painting

ART 3316 - Advanced Sculpture

ART 3317 - Workshop in Spatial Arts

ART 3330 - Electronics for Sculpture

ART 3340 - Mixed Media Assemblage

ART 3420 - Selected Topics in Studio Art

ART 3430 - Junior/Senior Seminar

ART 3440 - Visual Literacy

ART 3512 - Ceramics II

ART 3513 - Ceramics III

ART 3600 - Digital Photography II

ART 3620 - Alternative Processes in Photography

ART 3630 - Digital Photography III

ART 3640 - Special Topic in Photography

ART 3654 - Landscape Photography

ART 3655 - Advanced Landscape Photography

ART 3660 - Portrait Photography

ART 3661 - Advanced Portrait Photography

ART 3670 - Introduction to Studio Lighting

ART 3671 - Advanced Studio Lighting

ART 3680 - Photography Career Preparation

ART 3800 - Animation

ART 3810 - Graphic Design I

ART 3815 - Typography

ART 3820 - Digital Video

ART 3825 - Motion Graphics

ART 3828 - Advanced Digital Video

ART 3830 - Digital Imaging

ART 3851 - Game Design and Scripting

ART 3855 - Graphic Design II

ART 3860 - Production Design for Print and Screen

ART 3870 - Web Authoring

ART 3898 - Cooperative Education

ART 4143 - Advanced Drawing

ART 4200 - Interactive Authoring

ART 4220 - Multimedia Senior Project

ART 4230 - Graphic Design Senior Project

ART 4370 - Human and Machine Performance

ART 4600 - Image and Idea

ART 4645 - Creative Photography

ART 4710 - Senior Thesis

ART 4720 - Senior Seminar

ART 4730 - Senior Portfolio

ART 4740 - Professional Practices

ART 4745 - Senior Project in Photography

ART 4857 - Advanced Printmaking

ART 4900 - Independent Study

Biological Science

BIOL 1000 - Basic Concepts in Biology

BIOL 1001 - Introduction to Biology

BIOL 1002 - Introduction to Biology Lab

BIOL 1005 - How Things Work: The Human Body

BIOL 1007 - Human Biology

BIOL 1020 - Ecology and the Environment

BIOL 1401 - Molecular and Cellular Biology

BIOL 1402 - Plant Biology

BIOL 1403 - Animal Biology

BIOL 2010 - Human Physiology and Anatomy I

BIOL 2011 - Anatomy and Physiology I

BIOL 2020 - Human Physiology and Anatomy II

BIOL 2021 - Anatomy and Physiology II

BIOL 2025 - Introduction to Microbiology

BIOL 3011 - Foundational Biology

BIOL 3012 - Foundational Biology Laboratory

BIOL 3020 - Genetics, Evolution, and Humanity

BIOL 3065 - Humans and Sex

BIOL 3070 - Human Nutrition

BIOL 3080 - Biology Hands-On Laboratory

BIOL 3110 - Principles of Ecology

BIOL 3121 - Principles of Genetics

BIOL 3122 - Principles of Developmental Genetic Analysis

BIOL 3130 - Principles of Evolutionary Biology

BIOL 3151 - Principles of Animal Physiology

BIOL 3215 - Marine Biology

BIOL 3216 - Freshwater Environments

BIOL 3405 - Microbiology

BIOL 3410 - Epidemiology

BIOL 3430 - Hematology

BIOL 3435 - Principles of Microbiology

BIOL 3441 - Biomedical Parasitology

BIOL 3898 - Cooperative Education

BIOL 3999 - Issues in Biological Science

BIOL 4010 - Microbes and Humanity

BIOL 4130 - Biogeography

BIOL 4142 - Microbial Symbioses

BIOL 4143 - Molecular Microbiology

BIOL 4150 - Mammalian Physiology

BIOL 4160 - Medical Physiology

BIOL 4175 - Population Biology

BIOL 4340 - Environmental Microbiology

BIOL 4351 - Biological Conservation

BIOL 4355 - Global Change Biology

BIOL 4405 - Microbial Physiology and Biochemistry

BIOL 4413 - Medical Microbiology

BIOL 4420 - Genetics Laboratory

BIOL 4425 - Biology of Fungi

BIOL 4430 - Immunology

BIOL 4435 - Water Quality and Human Health

BIOL 4441 - Principles of Virology

BIOL 4450 - Cell Culture Techniques

BIOL 4455 - Molecular Cell Biology

BIOL 4456 - Molecular Techniques

BIOL 4485 - PCR, DNA Sequencing and Fragment Analysis

BIOL 4490 - Bioinformatics

BIOL 4500 - Quantitative Methods in Physiology

BIOL 4504 - Comparative Physiology

BIOL 4505 - General Endocrinology

BIOL 4506 - Animal Physiology Laboratory

BIOL 4510 - Neurobiology

BIOL 4512 - Applied Neurobiology

BIOL 4513 - Animal Senses

BIOL 4516 - Environmental Animal Physiology

BIOL 4517 - Environmental Toxicology

BIOL 4518 - Animal Behavior

BIOL 4525 - Neural Development

BIOL 4530 - Ecological Methods

BIOL 4583 - Vertebrate Biology

BIOL 4820 - Biology Seminar

BIOL 4830 - Seminar in Forensic Research

BIOL 4900 - Independent Study

Biological Science: Graduate

BIOL 6120 - Environmental Experimental Analysis

BIOL 6141 - Advanced Molecular Techniques

BIOL 6142 - Microbial Symbioses

BIOL 6143 - Molecular Microbiology

BIOL 6147 - Functional Genomics

BIOL 6151 - Cell and Molecular Biology I

BIOL 6152 - Cell and Molecular Biology II

BIOL 6175 - Population Biology

BIOL 6180 - Estuarine Wetlands Ecology

BIOL 6340 - Environmental Microbiology

BIOL 6351 - Global Change Biology

BIOL 6355 - Biological Conservation

BIOL 6405 - Microbial Physiology and Biochemistry

BIOL 6435 - Water Quality and Human Health

BIOL 6441 - Principles of Virology

BIOL 6500 - Quantitative Methods in Physiology

BIOL 6504 - Comparative Physiology

BIOL 6506 - Animal Physiology Laboratory

BIOL 6513 - Animal Senses

BIOL 6515 - Neurobiology

BIOL 6517 - Environmental Toxicology

BIOL 6520 - Mammalian Physiology Laboratory

BIOL 6525 - Neural Development

BIOL 6801 - Graduate Seminar-Ecology

BIOL 6811 - Graduate Seminar-Physiology

BIOL 6821 - Graduate Seminar in Cell and Molecular Biology

BIOL 6822 - Biotechnology Colloquium

BIOL 6898 - Cooperative Education

BIOL 6900 - Independent Study

BIOL 6901 - Comprehensive Examination Preparation

BIOL 6905 - Preparation for Undergraduate Instruction in STEM

BIOL 6910 - University Thesis

BIOL 6999 - Issues in Biological Science

Biostatistics: Graduate

BSTA 6651 - Analysis of Categorical Data in Biostatistics

BSTA 6652 - Survival Analysis in Biostatistics

BSTA 6653 - Clinical Trials in the Pharmaceutical and Biomedical Industries

BSTA 6690 - Statistical Bioinformatics

BSTA 6843 - Selected Topics in Biostatistics

BSTA 6844 - Selected Topics in Biostatistics

BSTA 6845 - Selected Topics in Biostatistics

BSTA 6846 - Selected Topics in Biostatistics

BSTA 6847 - Selected Topics in Biostatistics

BSTA 6848 - Selected Topics in Biostatistics

BSTA 6849 - Selected Topics in Biostatistics

BSTA 6999 - Issues in Biostatistics

Chemistry

CHEM 1101 - General Chemistry

CHEM 1102 - General Chemistry

CHEM 1103 - General Chemistry

CHEM 1112 - General Chemistry Supplemental Instruction

CHEM 1113 - General Chemistry Supplemental Instruction

CHEM 1601 - Basic Chemistry for the Health Sciences

CHEM 1602 - Basic Chemistry for the Health Sciences

CHEM 1610 - Survey of Basic Chemistry for Health Sciences

CHEM 1615 - Survey of Basic Chemistry for Healthier Living

CHEM 2200 - Quantitative Analysis

CHEM 2301 - Survey of Organic Chemistry

CHEM 2302 - Survey of Organic Chemistry

CHEM 3080 - Chemistry Hands-On Laboratory

CHEM 3200 - Bioanalytical and Forensic Instrumentation

CHEM 3301 - Organic Chemistry

CHEM 3302 - Organic Chemistry

CHEM 3303 - Organic Chemistry

CHEM 3400 - Introductory Biochemistry

CHEM 3405 - Clinical Chemistry

CHEM 3501 - Biophysical Chemistry

CHEM 3511 - Physical Chemistry Lecture

CHEM 3512 - Physical Chemistry Lecture

CHEM 3513 - Physical Chemistry Lecture

CHEM 3531 - Physical Chemistry Laboratory

CHEM 3532 - Physical Chemistry Laboratory

CHEM 3898 - Cooperative Education

CHEM 4161 - Advanced Inorganic Chemistry

CHEM 4162 - Advanced Inorganic Chemistry

CHEM 4180 - Inorganic Chemistry Laboratory

CHEM 4240 - Instrumental Methods of Analysis

CHEM 4311 - Advanced Organic Chemistry

CHEM 4400 - Instructional Activities in Chemistry

CHEM 4411 - General Biochemistry

CHEM 4412 - General Biochemistry

CHEM 4413 - General Biochemistry

CHEM 4430 - General Biochemistry Laboratory

CHEM 4431 - Advanced Biochemistry Laboratory

CHEM 4440 - Protein Structure

CHEM 4450 - Nucleic Acid Chemistry

CHEM 4460 - Major Organ Biochemistry

CHEM 4521 - Elements of Chemical Thermodynamics

CHEM 4601 - Environmental Chemistry I

CHEM 4602 - Environmental Chemistry II

CHEM 4700 - Survey of Chemical Literature

CHEM 4810 - Undergraduate Research

CHEM 4811 - Senior Thesis

CHEM 4830 - Seminar in Forensic Research

CHEM 4900 - Independent Study

Chemistry: Courses for Non-Science Majors

CHEM 1000 - Popular Topics in Chemistry

CHEM 1100 - Introduction to College Chemistry

CHEM 1110 - Fundamentals of College Chemistry

CHEM 1605 - Basic Chemistry for Healthier Living

CHEM 1620 - Basic Biochemistry for the Health Sciences

CHEM 3010 - The Making of Wine

CHEM 3011 - Foundational Chemistry

CHEM 3012 - Foundational Chemistry Laboratory

CHEM 3999 - Issues in Chemistry

Chemistry: Graduate

CHEM 6310 - Advanced Topics in Organic Chemistry

CHEM 6410 - Advanced Topics in Biochemistry

CHEM 6430 - Protein Chemistry Techniques

CHEM 6510 - Advanced Topics in Physical Chemistry

CHEM 6521 - The Chemical Bond

CHEM 6820 - Seminar

CHEM 6830 - Research

CHEM 6850 - Methods of Graduate Research

CHEM 6898 - Cooperative Education

CHEM 6900 - Independent Study

CHEM 6901 - Comprehensive Review

CHEM 6910 - University Thesis

CHEM 6999 - Issues in Chemistry

Communication

COMM 1000 - Public Speaking

COMM 1004 - Interpersonal Communication

COMM 2200 - Introduction to Journalistic Writing

COMM 2201 - Argumentation and Debate

COMM 2250 - Sports and Media

COMM 2300 - 21st Century Communication

COMM 2320 - Communication Writing and Design

COMM 2550 - Queer Cultures: Knowledge and Literacy

COMM 2600 - Documentary Film Studies

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

COMM 3000 - History and Criticism Communication

COMM 3002 - Communication, Media and Culture

COMM 3003 - Communication Theories

COMM 3004 - Quantitative Communication Research Methods

COMM 3005 - Qualitative Communication Research Methods

COMM 3010 - Intermediate News Writing and Editing

COMM 3100 - Introduction to Professional Video Production

COMM 3107 - Introduction to Organizational Communication

COMM 3160 - Radio Operations

COMM 3200 - Introduction to Research Methods in Communication

COMM 3204 - Reason in Controversy

COMM 3220 - Media Workshop: Print

COMM 3221 - Media Workshop: Magazine and Feature Writing

COMM 3222 - Media Workshop: Editorial and Opinion Writing

COMM 3223 - Media Workshop: Advertising and Public Relations

COMM 3224 - Media Workshop: Internet

COMM 3225 - Media Workshop: Photojournalism

COMM 3231 - Media Workshop: Radio

COMM 3232 - Media Workshop: Video/Documentary

COMM 3235 - Journalism Practicum

COMM 3340 - Graphic Communication

COMM 3510 - Small Group Communication

COMM 3530 - Interviewing Principles and Practices

COMM 3560 - Persuasion Theory and Practice

COMM 3600 - Digital Photography II

COMM 3630 - Digital Photography III

COMM 3660 - Portrait Photography

COMM 3670 - Introduction to Studio Lighting

COMM 3671 - Advanced Studio Lighting

COMM 3680 - Photography Career Preparation

COMM 3690 - Documentary History and Tradition Abroad

COMM 3691 - Digital Media Production Abroad

COMM 3710 - Video/Audio Production II

COMM 3898 - Cooperative Education

COMM 3999 - Issues in Communication

COMM 4005 - Histories of Film

COMM 4006 - Intermediate Video Production

COMM 4107 - Relational Communication in Organizations

COMM 4150 - Media and Government

COMM 4200 - Radio Programming and Promotion

COMM 4201 - Comparative Traditions of Rhetoric

COMM 4205 - Ethics and Law in Communication

COMM 4207 - Communicating in Organizations

COMM 4300 - Critical Discourse of Difference

COMM 4500 - Gender Identity and Representation in Media

COMM 4510 - Public Relations Theory and Practice

COMM 4515 - Critical Discourse in Multicultural America

COMM 4520 - Advertising Form and Function

COMM 4530 - Communication Campaigns

COMM 4540 - Selected Topics in Mass Communication and Public Policy

COMM 4600 - Image and Idea

COMM 4610 - Rhetoric of Popular Culture

COMM 4620 - History of Photography

COMM 4706 - Sports Media Production

COMM 4750 - Mass Communication Research

COMM 4880 - Conflict Management

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

COMM 4890 - Senior Project: Media Production

COMM 4900 - Independent Study

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

COMM 6000 - Introduction to Graduate Study

COMM 6010 - Seminar in Theories in Communication

COMM 6020 - Seminar in Communication, Media, and Society

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

COMM 6040 - Advanced Qualitative Research Methods

COMM 6050 - Advanced Quantitative Research Methods

COMM 6100 - Topics in Speech Communication

COMM 6200 - Internship in Speech Communication

COMM 6250 - Teaching Communication

COMM 6300 - Seminar in Media Studies

COMM 6400 - Seminar in Rhetorical Studies

COMM 6450 - Seminar in Globalization and Media

COMM 6550 - Seminar in Critical Cultural Studies

COMM 6551 - Critical Ethnic Media Studies

COMM 6600 - Seminar in Organizational Communication

COMM 6700 - Seminar in Communication Campaigns Theory and Research

COMM 6800 - Seminar in Interpersonal Communication

COMM 6850 - Professional Communication

COMM 6898 - Cooperative Education

COMM 6899 - Project

COMM 6900 - Independent Study

COMM 6901 - Comprehensive Examination Preparation

COMM 6910 - University Thesis

COMM 6999 - Issues in Speech Communication

Computer Engineering

CMPE 3010 - Electric Circuit Theory II

CMPE 3430 - Computer Architecture

CMPE 3432 - Digital Design Lab

CMPE 3434 - Microprocessor Lab

CMPE 3752 - Introduction to Digital Signal Processing

CMPE 3898 - Cooperative Education

CMPE 3999 - Issues in Computer Engineering

CMPE 4330 - Advanced Work Measurement

CMPE 4432 - VLSI Circuit Design

CMPE 4435 - Computer Architecture II

CMPE 4610 - Senior Design I

CMPE 4620 - Senior Design II

CMPE 4835 - Human-Computer Interaction

CMPE 4845 - Fuzzy Sets and Fuzzy Logic

CMPE 4900 - Independent Study

Computer Science

CS 1020 - Introduction to Computers

CS 1080 - Introduction to Media Computation

CS 1160 - Introduction to Computer Science I

CS 2020 - Introduction to Web Design and Technology

CS 2360 - Introduction to Computer Science II

CS 2370 - Introduction to Computer Science III

CS 2430 - Computer Organization and Assembly Language Programming

CS 3120 - Programming Language Concepts

CS 3240 - Data Structures and Algorithms

CS 3340 - Introduction to Object-Oriented Programming and Design

CS 3430 - Computer Architecture

CS 3432 - Digital Design Lab

CS 3434 - Microprocessor Lab

CS 3520 - Web Site Development

CS 3560 - Introduction to Systems Programming

CS 3590 - Data Communications and Networking

CS 3750 - Numerical Analysis I

CS 3752 - Introduction to Digital Signal Processing

CS 3898 - Cooperative Education

CS 4020 - Computing and Social Responsibility

CS 4110 - Compiler Design

CS 4170 - Theory of Automata

CS 4245 - Analysis of Algorithms

CS 4310 - Software Engineering I

CS 4311 - Software Engineering II

CS 4320 - Software Testing and Quality Assurance

CS 4432 - VLSI Circuit Design

CS 4435 - Computer Architecture II

CS 4521 - Mobile and Topics in Web Programming

CS 4525 - Principles of Network Security

CS 4526 - Principles of Wireless, Mobile, Grid and Pervasive Computing Security

CS 4527 - Network Security Management

CS 4560 - Operating Systems

CS 4590 - Computer Networks

CS 4592 - Network Operations and Administration

CS 4593 - Cloud Computing

CS 4594 - Broadband Networks and Communications

CS 4596 - Wireless and Mobile Networking

CS 4660 - Database Architecture

CS 4665 - Database Operations and Administration

CS 4810 - Artificial Intelligence

CS 4840 - Computer Graphics

CS 4845 - Fuzzy Sets and Fuzzy Logic

CS 4848 - Computer Animation Programming

CS 4849 - Game Programming

CS 4865 - Graphical User Interface Programming Using a Rapid Application Development Tool

CS 4900 - Independent Study

Computer Science: Graduate

CS 6000 - Research Methodologies

CS 6110 - Theory and Design of Compilers

CS 6170 - Automata and Formal Languages

CS 6260 - Computation and Complexity

CS 6310 - Advanced Software Engineering

CS 6320 - Software Engineering of Web-Based Systems

CS 6325 - Advanced Software Testing

CS 6520 - Cryptography and Data Security

CS 6522 - Advanced WWW Software Development

CS 6525 - Network Security

CS 6526 - Security in Wireless, Mobile, Grid and Pervasive Computing

CS 6527 - Network Security Management

CS 6560 - Operating Systems Design

CS 6570 - Distributed Computation

CS 6575 - Parallel Programming

CS 6580 - Distributed Systems

CS 6591 - Communication Network Analysis and Design

CS 6592 - Network Management

CS 6593 - Cloud Computing

CS 6594 - Broadband and Multimedia Networks

CS 6596 - Wireless and Mobile Network Architecture

CS 6660 - Database Systems

CS 6665 - Database Systems Administration

CS 6715 - Data Compression

CS 6750 - Topics in Numerical Analysis

CS 6752 - Digital Signal Processing

CS 6810 - Topics in Artificial Intelligence

CS 6820 - Machine Learning

CS 6825 - Computer Vision

CS 6831 - Statistical Learning and Data Analysis

CS 6865 - Topics in Graphical User Interface Programming

CS 6870 - Computer Simulation

CS 6899 - Project

CS 6900 - Independent Study

CS 6901 - Graduate Synthesis in Computer Science

CS 6909 - Departmental Thesis

Construction Management

CMGT 1011 - Introduction to Construction Management

CMGT 2011 - Surveying and Blueprint Reading

CMGT 2060 - Construction Methods and Material I

CMGT 2070 - Construction Methods and Material II

CMGT 3101 - Statics

CMGT 3250 - Electrical and Mechanical Systems in Construction

CMGT 3280 - Construction Law

CMGT 3400 - Construction Project Management and Commissioning

CMGT 3450 - Building Codes

CMGT 3600 - Soil Mechanics and Building Foundations

CMGT 3898 - Cooperative Education

CMGT 3999 - Issues in Engineering

CMGT 4100 - Engineering Graphics for Construction Management

CMGT 4200 - Construction Scheduling

CMGT 4300 - Environmental Issues and Green Building

CMGT 4400 - Construction Cost Estimating

CMGT 4500 - Construction Project Planning and Control, Computer Tools

CMGT 4610 - Senior Project I

CMGT 4620 - Senior Project II

CMGT 4800 - Construction Safety

CMGT 4900 - Independent Study

CMGT 4990 - Special Topics

Construction Management: Graduate

CMGT 6100 - Engineering Graphics for Construction Management

CMGT 6200 - Legal Issues in Construction Management

CMGT 6300 - Environmental Issues and Green Building

CMGT 6400 - Construction Cost Estimating

CMGT 6500 - Construction Project Planning and Control, Computer Tools

CMGT 6600 - Financial Decision Making and Reporting in Construction

CMGT 6700 - Construction Risk Management and Commissioning

CMGT 6800 - Construction Safety

CMGT 6850 - Current Issues in Construction Management

CMGT 6860 - Utility Systems Construction

CMGT 6870 - Advanced Integrated Computer Applications

CMGT 6880 - Applied Research in Construction Management

CMGT 6899 - Project

CMGT 6900 - Independent Study

CMGT 6999 - Special Topics in Construction Management

Criminal Justice Administration

CRJA 2100 - Elementary Criminal Law

CRJA 2200 - Basic Criminal Investigation

CRJA 2400 - Evidence in Corrections and Law Enforcement

CRJA 2500 - Administration of Justice

CRJA 2600 - Police Community Relations

CRJA 3100 - Corrections and Criminal Justice

CRJA 3200 - Research Methods in Criminal Justice

CRJA 3300 - Crime Prevention and Control

CRJA 3350 - Crime and Criminal Justice in the Media and Cinema

CRJA 3400 - Advanced Criminal Investigation

CRJA 3500 - Criminal Identification

CRJA 3610 - Police Organization and Management

CRJA 3700 - Ethics and Justice Administration

CRJA 3750 - Family Violence and the Criminal Justice System

CRJA 3800 - Comparative Evidence and Its Evaluation

CRJA 3898 - Cooperative Education

CRJA 3999 - Issues in Criminal Justice

CRJA 4100 - Advanced Policing Innovations

CRJA 4123 - The Crime Victim

CRJA 4124 - Sex Crime Investigation

CRJA 4125 - Women in Criminal Justice

CRJA 4127 - Crime Theory

CRJA 4128 - Internship in Criminal Justice

CRJA 4130 - Transnational Crime and Justice

CRJA 4200 - White Collar Crime

CRJA 4330 - Prejudice, Violence, and Hate Crimes

CRJA 4500 - Animal Cruelty and the Criminal Justice System

CRJA 4530 - Youth Crime & Empowerment: Experiential Learning

CRJA 4700 - Community Based Corrections

CRJA 4710 - Drugs, Law, and Society: Race, Gender and U.S. Drug Policy

CRJA 4730 - Restorative Justice

CRJA 4770 - Criminal Law and the Courts

CRJA 4830 - Seminar in Forensic Research

CRJA 4900 - Independent Study

Dance

DANC 1135 - Beginning Technique Classes: Beginning Breakdance I

DANC 1136 - Beginning Technique Classes: Beginning Breakdance II

DANC 1151 - Beginning Technique Classes: Beginning Tap Dance I

DANC 1153 - Beginning Technique Classes: Beginning Tap Dance III

DANC 1181 - Beginning Technique Classes: Beginning Ballroom Dance I

DANC 1182 - Beginning Technique Classes: Beginning Ballroom Dance II

DANC 1183 - Beginning Technique Classes: Beginning Ballroom Dance III

DANC 1201 - Dance for All Bodies and Abilities

DANC 1202 - World Dance: Oral Traditions and the Stage

DANC 1203 - Exploring the Creative and Spiritual

DANC 2003 - Intermediate Folk Dance

DANC 2023 - Dance Fitness

DANC 2111 - Intermediate Technique Classes: Intermediate Latin Dance I

DANC 2112 - Intermediate Technique Classes: Intermediate Latin Dance II

DANC 2114 - Intermediate Technique Classes: Intermediate Latin Dance IV

DANC 2115 - Intermediate Technique Classes: Intermediate Latin Dance V

DANC 2116 - Intermediate Technique Classes: Intermediate Latin Dance VI

DANC 2120 - Musical Theatre Dance A

DANC 2142 - Intermediate Technique Classes: Intermediate Modern Dance II

DANC 2153 - Intermediate Technique Classes: Intermediate Tap Dance III

DANC 2161 - Intermediate Technique Classes: Intermediate Capoeira I

DANC 2162 - Intermediate Technique Classes: Intermediate Capoeira II

DANC 2163 - Intermediate Technique Classes: Intermediate Capoeira I

DANC 2221 - World Folk Dance A

DANC 2222 - World Folk Dance B

DANC 2223 - World Folk Dance C

DANC 2331 - Mixed Ability Dance A

DANC 2332 - Mixed Ability Dance B

DANC 2333 - Mixed Ability Dance C

DANC 2336 - Sex, Race, and Body Politics in Dance B

DANC 2337 - Sex, Race, and Body Politics in Dance C

DANC 3022 - Improvisation and Beyond

DANC 3026 - Jazz and Modern Dance

DANC 3101 - Dance Ensemble Technique A

DANC 3102 - Dance Ensemble Technique B

DANC 3103 - Dance Ensemble Technique C

DANC 3104 - Dance Ensemble Technique D

DANC 3105 - Dance Ensemble Technique E

DANC 3106 - Dance Ensemble Technique F

DANC 3135 - Advanced Technique Classes: Advanced Breakdance I

DANC 3136 - Advanced Technique Classes: Advanced Breakdance II

DANC 3137 - Advanced Technique Classes: Advanced Breakdance III

DANC 3151 - Advanced Technique Classes: Advanced Tap Dance I

DANC 3152 - Advanced Technique Classes: Advanced Tap Dance II

DANC 3153 - Advanced Technique Classes: Advanced Tap Dance III

DANC 3235 - Dance for Children

DANC 3251 - Movement Analysis

DANC 3252 - Dance Through the Ages

DANC 3300 - Sex, Race, and Body Politics in Dance

DANC 3330 - The Digital Stage: Dance on Camera

DANC 3426 - Collaborative Dance and Theatre

DANC 3451 - Dance Ensemble A

DANC 3452 - Dance Ensemble B

DANC 3453 - Dance Ensemble C

DANC 3454 - Dance Ensemble D

DANC 3455 - Dance Ensemble E

DANC 3456 - Dance Ensemble F

DANC 3461 - Inclusive Interdisciplinary Ensemble A

DANC 3462 - Inclusive Interdisciplinary Ensemble B

DANC 3463 - Inclusive Interdisciplinary Ensemble C

DANC 3464 - Inclusive Interdisciplinary Ensemble D

DANC 3465 - Inclusive Interdisciplinary Ensemble E

DANC 3466 - Inclusive Interdisciplinary Ensemble F

DANC 3999 - Issues in Dance

DANC 4131 - Advanced Dance Technique Courses: Advanced Hip Hop Dance I

DANC 4132 - Advanced Dance Technique Courses: Advanced Hip Hop Dance II

DANC 4133 - Advanced Dance Technique Courses: Advanced Hip Hop Dance III

DANC 4135 - Advanced Dance Technique Courses: Advanced Breakdance I

DANC 4136 - Advanced Dance Technique Courses: Advanced Breakdance II

DANC 4137 - Advanced Dance Technique Courses: Advanced Breakdance III

DANC 4900 - Independent Study

Developmental Writing

ENGL 0725 - Basic Reading and Composition for Speakers of English as a Second or Foreign Language I

ENGL 0730 - Basic Reading and Composition for Speakers of English as a Second or Foreign Language II

ENGL 0735 - Basic Reading and Composition for Speakers of English as a Second or Foreign Language III

ENGL 0801 - The Intensive Learning Experience in Writing I

ENGL 0802 - The Intensive Learning Experience in Writing II

ENGL 0803 - The Intensive Learning Experience in Writing III

ENGL 0910 - Developmental Writing I

Entrepreneurship

ENTR 2485 - Establishing and Managing a Small Business

ENTR 4485 - Establishing New Enterprises

ENTR 4490 - Practicum in Small Business Management

Entrepreneurship: Graduate

ENTR 6480 - Introduction to Entrepreneurship

ENTR 6485 - New Venture Development

ENTR 6800 - Entrepreneurship Practicum

ENTR 6909 - Departmental Thesis

Economics

ECON 1000 - Economics of Public Issues

ECON 2301 - Principles of Microeconomics

ECON 2302 - Principles of Macroeconomics

ECON 3000 - Micro-Economic Theory

ECON 3001 - Micro-Economic Theory II

ECON 3005 - Macro-Economic Theory

ECON 3006 - Macro-Economics for Business

ECON 3107 - Global Economic Analysis

ECON 3140 - Engineering Economy

ECON 3170 - History of Economic Thought

ECON 3200 - Comparative Economic Systems

ECON 3310 - Money, Banking, and Financial Intermediaries

ECON 3370 - Public Sector Economics

ECON 3375 - Public Choice: The Economics of Politics

ECON 3500 - Urban Economics

ECON 3551 - Managerial Economics and Business Strategy

ECON 3555 - Economics of Innovation and Intellectual Property

ECON 3560 - Economics of Information and Organizations

ECON 3680 - Labor Economics

ECON 3690 - Health Economics and Public Policy

ECON 3898 - Cooperative Education

ECON 3999 - Issues in Economics

ECON 4000 - Mathematical Economics

ECON 4306 - Environmental Economics

ECON 4315 - Monetary Theory

ECON 4400 - Introduction to Econometrics

ECON 4520 - Industrial Organization and Public Policy

ECON 4590 - Selected Topics in Economic Analysis

ECON 4705 - International Finance

ECON 4710 - International Economic Development

ECON 4895 - Workshop in Economic Research

ECON 4896 - Senior Research

ECON 4900 - Independent Study

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

ECON 6102 - Seminar: Micro-Economic Theory II

ECON 6105 - Seminar: Macro-Economic Theory

ECON 6200 - Seminar: Comparative Economic Systems

ECON 6205 - Market Design: The Economics of Business Opportunities

ECON 6215 - Economics for Managers in a Global Economy

ECON 6225 - Corporate Governance and Entrepreneurship

ECON 6250 - Seminar: Project Analysis

ECON 6315 - Seminar: Monetary Theory

ECON 6370 - Seminar: Public Sector Economics

ECON 6400 - Seminar: Econometrics

ECON 6501 - Seminar: Urban and Regional Economics

ECON 6511 - Advanced Applied Econometrics

ECON 6520 - Seminar: Industrial Organization and Public Policy

ECON 6555 - Seminar: Economics of Innovation and Intellectual Property

ECON 6680 - Seminar: Labor Economics

ECON 6710 - Seminar: International Economic Development

ECON 6896 - Research Methods

ECON 6898 - Cooperative Education

ECON 6900 - Independent Study

ECON 6910 - University Thesis

ECON 6999 - Issues in Economics

Education: Interdisciplinary: Graduate

EDUI 5900 - Independent Study

EDUI 6002 - Animation for the Web

EDUI 6005 - Digital Graphics

EDUI 6098 - Designing Effective Multimedia Instruction

EDUI 6110 - Web as an Interactive Educational Tool

EDUI 6120 - Distance Learning Technologies and Applications

EDUI 6150 - Current Issues in Educational Technology

EDUI 6200 - Learning Theories and the Design of E-learning Environments

EDUI 6210 - Principles of Instructional Design

EDUI 6240 - Curriculum and Instruction in Mathematics, Science, and Technology

EDUI 6250 - Reading Research and Evaluation

EDUI 6280 - Mathematics, Science and Technology in Education

EDUI 6300 - Culture and the Evolution of Educational Technology

EDUI 6315 - Current Technologies in Education

EDUI 6350 - Educational Technology in the Teaching of Language and Social Studies

EDUI 6400 - Educational Technology Planning for Innovation and Change

EDUI 6420 - Technology Internship

EDUI 6500 - Research in Educational Technology

EDUI 6600 - Educational Interface Design

EDUI 6701 - Introduction to Online Teaching and Learning

EDUI 6702 - Teaching Models for Online Instruction

EDUI 6703 - Technology Tools for Online Instruction

EDUI 6704 - Designing Curriculum for Online Instruction

EDUI 6705 - Educational Planning and Development for Online Programs

EDUI 6706 - Research in Online Teaching and Learning

EDUI 6707 - History and Culture of Online Learning Communities

EDUI 6741 - Family, School, Community Collaborations

EDUI 6755 - Cultural Diversity in the Workplace

EDUI 6772 - Content Development for Online Learning

EDUI 6773 - Supervising and Evaluating Online Teaching

EDUI 6774 - Current Issues in Online Learning

EDUI 6780 - Building the Online Environment

EDUI 6781 - Creating Digital Media for Online Instruction

EDUI 6782 - Designing and Implementing User Interfaces for Online Instruction

EDUI 6783 - Providing Interactivity in the Online Environment

EDUI 6899 - Project

EDUI 6900 - Independent Study

EDUI 6909 - Departmental Thesis

EDUI 6910 - University Thesis

EDUI 6999 - Issues in Education Interdisciplinary Studies

Education: Online Teaching and Learning

OTL 6701 - Introduction to Online Teaching and Learning

OTL 6702 - Teaching Models for Online Instruction

OTL 6703 - Technology Tools for Online Instruction

OTL 6704 - Designing Curriculum for Online Instruction

OTL 6705 - Educational Planning and Development for Online Programs

OTL 6706 - Research in Online Teaching and Learning

OTL 6707 - History and Culture of Online Learning Communities

OTL 6772 - Content Development for Online Learning

OTL 6773 - Supervising and Evaluating Online Teaching

OTL 6774 - Current Issues in Online Learning

OTL 6780 - Building the Online Environment

OTL 6781 - Creating Digital Media for Online Instruction

OTL 6782 - Designing and Implementing User Interfaces for Online Instruction

OTL 6783 - Providing Interactivity in the Online Environment

OTL 6899 - Project

OTL 7801 - Introduction to Online Teaching and Learning

OTL 7802 - Models for Online Instruction

OTL 7803 - Technology Tools for Online Instruction

OTL 7804 - Designing Curriculum for Online Instruction

Educational Leadership

EDLD 6000 - Introduction to Educational Leadership

EDLD 6010 - Site Practicum I

EDLD 6011 - Site Practicum II

EDLD 6012 - Site Practicum III

EDLD 6020 - Research in Education

EDLD 6025 - Research Practicum I

EDLD 6026 - Research Practicum II

EDLD 6027 - Research Practicum III

EDLD 6124 - Teacher Leadership for Equity and Change

EDLD 6201 - Research Seminar

EDLD 6400 - Instructional Leadership

EDLD 6410 - Supervision and Staff Development

EDLD 6550 - School Site Leadership and Organizational Behavior

EDLD 6610 - Service-Learning for School Leaders

EDLD 6620 - Executive Communications for School Leaders

EDLD 6650 - Educational Law for Equity

EDLD 6675 - School Finance and Human Resources for Equity

EDLD 6720 - Solving School Problems through the Application of Research

EDLD 6730 - School Administrators' Application of Computer Technology

EDLD 6770 - Group Facilitation for School Leaders

EDLD 6801 - Fieldwork I

EDLD 6802 - Fieldwork II

EDLD 6803 - Fieldwork III

EDLD 6804 - Internship Fieldwork

EDLD 6805 - Internship Fieldwork

EDLD 6806 - Internship Fieldwork

EDLD 6814 - Internship Seminar

EDLD 6815 - Internship Seminar

EDLD 6816 - Internship Seminar

EDLD 6817 - Assessment, Mentoring, and Support Practicum I

EDLD 6818 - Assessment, Mentoring, and Support Practicum II

EDLD 6819 - Assessment, Mentoring, and Support Practicum III

EDLD 6822 - Practicum Seminar II

EDLD 6823 - Practicum Seminar III

EDLD 6831 - Assessment, Coaching and Support Practicum I

EDLD 6832 - Assessment, Coaching and Support Practicum II

EDLD 6833 - Assessment, Coaching and Support Practicum III

EDLD 6860 - Developing an Inquiring Community

EDLD 6865 - Focus on Learning

EDLD 6870 - Professional and Organizational Development

EDLD 6875 - Political Social Context in Education

EDLD 6880 - Ethics and Integrity

EDLD 6885 - Managing an Organization and Developing a Collaborative Culture

EDLD 6899 - Project

EDLD 6900 - Independent Study

EDLD 6908 - Graduate Synthesis in Educational Leadership

EDLD 6909 - Departmental Thesis

EDLD 6910 - University Thesis

EDLD 6999 - Issues in Educational Leadership

Educational Leadership: Doctoral

EDLD 8000 - Values and Purposes of Educational Leadership

EDLD 8010 - Applied Study of Educational Issues I

EDLD 8011 - Applied Study of Educational Issues II

EDLD 8012 - Advanced Topics in Educational Leadership

EDLD 8020 - Leadership for Equity I

EDLD 8021 - Leadership for Equity II

EDLD 8030 - Leadership in Systemic Reform

EDLD 8031 - Schools as Organizations: Linking Theory and Practice

EDLD 8032 - Sustainability of Educational Reform

EDLD 8040 - Program Planning and Evaluation

EDLD 8041 - Leadership for Educational Accountability

EDLD 8050 - Leadership in Curriculum and Instructional Reform

EDLD 8060 - Leadership in Resource Management

EDLD 8070 - Governance, Law and Policy Development

EDLD 8071 - Governance and Policy Development

EDLD 8080 - Conceptual Foundations of Research

EDLD 8081 - Qualitative and Quantitative Methods A

EDLD 8082 - Qualitative and Quantitative Methods B

EDLD 8083 - Defining Educational Issues

EDLD 8084 - Applied Research Methods A

EDLD 8085 - Applied Research Methods B

EDLD 8086 - Dissertation Seminar

EDLD 8087 - Dissertation Studies

EDLD 8900 - Independent Study

Educational Psychology

EPSY 1001 - Career Planning for College Students

EPSY 1020 - The Helping Relationship

EPSY 2300 - Strategies for Lifespan Mental Health

EPSY 3001 - Orientation to Careers in Counseling

EPSY 3555 - Introduction to Education for Social Justice

EPSY 3999 - Issues in Educational Psychology

Educational Psychology: Graduate

EPSY 5021 - Introduction to Educating all Students in Diverse Classrooms

EPSY 5125 - Educational Practices: Mild-Moderate Disabilities

EPSY 5126 - Special Education Law and Program Design

EPSY 5136 - Educational Practices: Moderate-Severe Disabilities

EPSY 5610 - Microcounseling I

EPSY 5620 - Microcounseling II

EPSY 5900 - Independent Study

EPSY 6021 - Thesis-Project Seminar (Mild-Moderate Disabilities Option)

EPSY 6023 - Research in Applied Behavioral Sciences

EPSY 6025 - Psychopathology of Childhood

EPSY 6026 - Psychopathology in Adulthood

EPSY 6027 - Chemical Dependence Theory

EPSY 6029 - Seminar in Chemical Dependency

EPSY 6120 - Communication: Collaborative Teaming and Management

EPSY 6124 - Augmentative Communication and Assistive Technology

EPSY 6127 - Instruction and Behavioral Support: Mild-Moderate Disabilities

EPSY 6128 - Instructional and Behavioral Support Fieldwork

EPSY 6129 - Advanced Study in Collaborative Service Delivery, Education, and Transition

EPSY 6130 - Service Learning and Positive School Climate

EPSY 6131 - Assessments: Students with Mild-Moderate Disabilities

EPSY 6133 - Curriculum: Students with Mild-Moderate Disabilities

EPSY 6134 - Advanced Curriculum and Instruction: Mild-Moderate Disabilities

EPSY 6137 - Instructional and Behavioral Support: Moderate-Severe Disabilities

EPSY 6140 - Curriculum: Students with Moderate-Severe Disabilities

EPSY 6141 - Social Networks and Communication for Students with Autism Spectrum Disorders (ASD) and Other Disabilities

EPSY 6142 - Assessment: Students with Moderate-Severe Disabilities

EPSY 6143 - Positive Behavior Supports

EPSY 6144 - Inclusive Education: School and Community

EPSY 6145 - Advanced Studies in Adolescent Learning and Secondary Curriculum

EPSY 6200 - Grief Counseling

EPSY 6201 - Marketing Psychological Services

EPSY 6202 - Parents and Professional Relations

EPSY 6203 - Inclusive Education Seminar

EPSY 6205 - Advanced Pupil Personnel Specialist

EPSY 6206 - Advanced Studies in the Education of Students with Mild-Moderate Disabilities: Research and Professional Practice

EPSY 6207 - Advanced Studies in the Education of Students with Moderate to Severe Disabilities: Research and Professional Practice

EPSY 6301 - Pediatric Psychology

EPSY 6302 - Individual Development

EPSY 6400 - Family Psychotherapy

EPSY 6402 - Couples Therapy

EPSY 6403 - Psychotherapy for Children

EPSY 6406 - Seminar in Human Sexuality

EPSY 6500 - Cognitive Behavior Therapy

EPSY 6550 - Young Children with Special Needs

EPSY 6551 - Family systems and Cultural Competence in ECSE

EPSY 6552 - Assessment and Intervention Planning for Young Children with Special Needs

EPSY 6553 - Curriculum and Instruction n ECSE

EPSY 6600 - Clinic Rounds

EPSY 6610 - Graduate Seminar I

EPSY 6620 - Graduate Seminar II

EPSY 6630 - Graduate Seminar III

EPSY 6669 - Seminar in Mental Health Consultation

EPSY 6670 - Field Work Group Supervision I

EPSY 6671 - Field Work Group Supervision II

EPSY 6672 - Field Work Group Supervision III

EPSY 6700 - Advanced Education Psychology

EPSY 6701 - Appraisal Procedures: Standardized

EPSY 6711 - Career-Life Planning

EPSY 6720 - Theory and Assessment of Cognition

EPSY 6746 - Neuropsychology of Learning Disabilities

EPSY 6750 - Foundations of Counseling

EPSY 6751 - Counseling and Psychotherapy Theory

EPSY 6752 - Cross-Cultural Counseling

EPSY 6754 - Cross-Cultural Consultation

EPSY 6758 - Practicum in Counseling

EPSY 6762 - Group Procedures and Facilitation

EPSY 6764 - Intervention Strategies for Systems and Organizational Change

EPSY 6765 - Psychological and Counseling Services in Schools and Higher Education

EPSY 6766 - Personal/Social Counseling in Schools

EPSY 6767 - Academic Counseling in Schools

EPSY 6768 - Foundations of School Counseling

EPSY 6770 - Internship

EPSY 6775 - Community Mental Health Counseling

EPSY 6783 - Seminar: Contemporary Issues

EPSY 6784 - Pharmacology and Counseling

EPSY 6785 - Law and Ethics in Counseling

EPSY 6786 - Child Abuse Assessment

EPSY 6788 - Spousal/Partner Abuse

EPSY 6810 - Advanced Graduate Seminar I

EPSY 6820 - Advanced Graduate Seminar II

EPSY 6830 - Advanced Graduate Seminar III

EPSY 6860 - Advanced Fieldwork I

EPSY 6862 - Advanced Fieldwork II

EPSY 6870 - Advanced Field Work Group Supervision I

EPSY 6871 - Advanced Field Work Group Supervision II

EPSY 6872 - Advanced Field Work Group Supervision III

EPSY 6880 - Advanced Internship

EPSY 6898 - Cooperative Education

EPSY 6899 - Project

EPSY 6900 - Independent Study

EPSY 6909 - Departmental Thesis

EPSY 6910 - University Thesis

EPSY 6911 - Developmental Assessment Practicum

EPSY 6912 - Personality Assessment

EPSY 6999 - Issues in Educational Psychology

Engineering

ENGR 1011 - Engineering: An Introduction

ENGR 1420 - Engineering Graphics

ENGR 1810 - Pre-Columbian Engineering and Construction Technology

ENGR 2010 - Electric Circuit Theory I

ENGR 2060 - Materials Science

ENGR 2070 - Fundamentals of Manufacturing

ENGR 2430 - Computer Organization and Assembly Language Programming

Engineering: Graduate

ENGR 5180 - Product/Process Design

ENGR 5200 - Systems Simulation

ENGR 5280 - Design and Management of Human Work Systems

ENGR 5300 - Quality Engineering

ENGR 5601 - Introductory Statistics and Probability for Science and Engineering

ENGR 6090 - Economic Decision Systems

ENGR 6150 - Production Planning and Control

ENGR 6200 - Project Management

ENGR 6300 - Applied Quality Assurance

ENGR 6350 - Reliability Engineering

ENGR 6400 - Research Methods in Engineering Management

ENGR 6420 - Systems Modeling

ENGR 6430 - Facilities Planning and Design

ENGR 6440 - Computer Integrated Manufacturing Systems

ENGR 6899 - Project

ENGR 6900 - Independent Study

ENGR 6999 - Issues in Engineering

English

ENGL 1001 - College Writing I

ENGL 1002 - College Writing II

ENGL 1020 - College Reading for Fluency

ENGL 1101 - Adjunct Grammar Workshop and Lab for Non-Native Speakers of English

ENGL 1102 - Adjunct Grammar Workshop and Lab for Non-Native Speakers of English II

ENGL 2000 - Vocabulary Study for Non-Native Speakers of English

ENGL 2005 - Grammar for Writers

ENGL 2010 - Vocabulary Building

ENGL 2030 - Introduction to Critical Writing on Prose Fiction

ENGL 2040 - Introduction to Critical Writing on Poetry

ENGL 2050 - Introduction to Critical Writing on Drama

ENGL 2070 - Beginning Workshop in Fiction

ENGL 2075 - Beginning Workshop in Poetry

ENGL 2600 - Patterns of Immigration and Migration in U.S. Literature

ENGL 2740 - Introduction to American Cinema

ENGL 2745 - Portrayal of American Groups through Film

ENGL 3000 - Writing for Proficiency

ENGL 3001 - Writing for Proficiency for Non-Native Speakers of English

ENGL 3003 - Discursive Writing

ENGL 3005 - Study of Language

ENGL 3010 - Modern English Grammar

ENGL 3015 - Introduction to Phonology

ENGL 3020 - Advanced Expository Writing

ENGL 3025 - Introduction to Technical and Professional Writing

ENGL 3040 - Linguistic History of the English Language

ENGL 3050 - Language and Gender

ENGL 3070 - Intermediate Workshop in Fiction

ENGL 3071 - Writing Women's Lives: A Workshop

ENGL 3075 - Intermediate Workshop in Poetry

ENGL 3080 - Introduction to Critical Theory of Literature

ENGL 3400 - Masterworks of British Literature

ENGL 3600 - Masterworks of American Literature

ENGL 3650 - Women and Literature

ENGL 3660 - Native American Literature

ENGL 3670 - Asian/Filipino American Literature

ENGL 3680 - Hispanic/Latino/U.S. Literature

ENGL 3691 - Black Literature I

ENGL 3692 - Black Literature II

ENGL 3700 - Classical Literature

ENGL 3710 - Medieval Literature

ENGL 3720 - Renaissance Humanism

ENGL 3730 - The Neo-Classical Tradition

ENGL 3740 - The Romantic Era: 1770-1830

ENGL 3745 - The Gothic

ENGL 3760 - Literature of the Twentieth Century

ENGL 3770 - Gay and Lesbian Literature

ENGL 3850 - The Graphic Novel: Form and Meaning in Comics

ENGL 3898 - Cooperative Education

ENGL 3999 - Issues in English Language and Literature

ENGL 4000 - Seminar in English Education

ENGL 4005 - Informational and Instructional Technology in the English Classroom

ENGL 4010 - Current Theories in Formal Grammar

ENGL 4040 - Language in the U.S.A.

ENGL 4060 - Topics in the Study of the English Language

ENGL 4070 - Advanced Workshop in Fiction

ENGL 4075 - Advanced Workshop in Poetry

ENGL 4151 - Introduction to Chaucer

ENGL 4251 - Shakespeare

ENGL 4260 - Milton

ENGL 4325 - Studies in 18th-Century British Literature

ENGL 4411 - Studies in Early 19th-Century British Literature

ENGL 4412 - Studies in Late 19th-Century British Literature

ENGL 4450 - Studies in British Women's Literature

ENGL 4635 - Studies in Mid-19th-Century American Literature

ENGL 4636 - Studies in Late 19th-Century American Literature

ENGL 4637 - Studies in 20th-Century American Literature

ENGL 4650 - Studies in Ethnic American Women's Literature

ENGL 4660 - Ethnic American Autobiography

ENGL 4710 - Bible for Students of Literature

ENGL 4720 - Mythology

ENGL 4740 - History of Children's Literature

ENGL 4741 - Children's Literature in the 20th Century

ENGL 4743 - Children's Folklore

ENGL 4745 - Film Criticism

ENGL 4810 - English Drama Before 1642

ENGL 4827 - 20th-Century Poetry

ENGL 4831 - British Novel Before 1800

ENGL 4832 - British Novel, 1800-1914

ENGL 4833 - British Novel from 1914 to 1945

ENGL 4840 - The Short Story

ENGL 4845 - The Short Story: A Global Perspective

ENGL 4860 - American Fiction to 1914

ENGL 4870 - The American Novel, 1914-1945

ENGL 4876 - Current American and British Novel

ENGL 4890 - Senior Seminar in English

ENGL 4900 - Independent Study

English: Graduate

ENGL 6001 - Introduction to Graduate Studies

ENGL 6060 - The Literary Magazine

ENGL 6070 - Graduate Workshop in Fiction

ENGL 6075 - Graduate Workshop in Poetry

ENGL 6100 - Seminar in Medieval Literature

ENGL 6215 - Seminar in Renaissance Literature

ENGL 6350 - Seminar in Restoration and 18th-Century British Literature

ENGL 6405 - Seminar in 19th-Century British Literature

ENGL 6501 - Theory and Practice of Teaching ESL I

ENGL 6502 - Theory and Practice of Teaching ESL II

ENGL 6503 - Second-Language Acquisition

ENGL 6504 - Morphology and Lexical Semantics

ENGL 6506 - Sociolinguistics

ENGL 6507 - Testing and Evaluation for Teaching ESL

ENGL 6508 - Supervised Tutoring/Teaching

ENGL 6509 - Computer Assisted Language Learning and Teaching

ENGL 6510 - Pedagogical Grammar

ENGL 6600 - Seminar in American Literature to 1900

ENGL 6608 - Supervised Composition Teaching/Tutoring

ENGL 6650 - Seminar in Women's Literature

ENGL 6660 - Seminar in 20th Century British Literature

ENGL 6665 - Seminar in 20th Century American Literature

ENGL 6675 - Studies in Poetry and Poetics

ENGL 6690 - Seminar in African-American Literature

ENGL 6750 - Theory and Practice of Composition

ENGL 6770 - Theory and Practice of Teaching Literature

ENGL 6898 - Cooperative Education

ENGL 6900 - Independent Study

ENGL 6909 - Departmental Thesis

ENGL 6910 - University Thesis

ENGL 6999 - Issues in English Language and Literature

Environmental Science

ENSC 2210 - Environmental Geology

ENSC 2211 - Environmental Geology Laboratory

ENSC 2300 - Global Change: Planet in Crisis

ENSC 2400 - Environmental Biology

ENSC 2401 - Environmental Biology Laboratory

ENSC 2800 - Environmental Problems of California

ENSC 2801 - Global Environmental Problems

ENSC 2802 - Global Environmental Issues

ENSC 2900 - Field Activity in Environmental Science

ENSC 3500 - Environmental Hydrology

ENSC 3999 - Issues in Environmental Science

ENSC 4140 - Hazardous Waste Management

ENSC 4200 - Global Change

ENSC 4800 - Seminar in Environmental Science

ENSC 4900 - Independent Study

Environmental Studies

ENVT 2000 - Introduction to Environmental Studies

ENVT 2001 - Environmental Perspectives

ENVT 3400 - Environmental Resource Analysis

ENVT 3480 - Applied Field Studies

ENVT 3898 - Cooperative Education

ENVT 3999 - Issues in Environmental Studies

ENVT 4100 - Environmental Impact Analysis

ENVT 4300 - Environmental Field Studies

ENVT 4320 - Energy and Society

ENVT 4800 - Senior Seminar in Environmental Studies

ENVT 4900 - Independent Study

ENVT 4910 - Internship in Environmental Studies

Ethnic Studies

ES 1001 - Introduction to Ethnic Studies

ES 1005 - Viewing Diversity

ES 1201 - Ethnicity in American History I

ES 1202 - Ethnicity in American History II

ES 3000 - Ethnic Writers

ES 3010 - Decolonize Your Diet: Food Justice in Communities of Color

ES 3030 - Immigrant and Refugee Women

ES 3140 - Racism and Sports

ES 3230 - Oral Traditions

ES 3333 - Ethics and Minority Politics

ES 3420 - Minority Women in America

ES 3430 - Interracial Sex and Marriage

ES 3434 - Mixed Race Identities

ES 3650 - Sikh American Experience

ES 3700 - Special Topics in Ethnic Studies

ES 3889 - Engaging Communities of Color

ES 3999 - Issues in Ethnic Studies

ES 4020 - Senior Seminar

ES 4030 - Senior Thesis

ES 4040 - Senior Seminar

ES 4900 - Independent Study

Ethnic Studies: African American Studies

ES 1022 - African Americans and Popular Culture

ES 2175 - Hip Hop Nation

ES 2300 - The Black Cinematic Tradition

ES 3103 - The African Diaspora

ES 3105 - African American Identity

ES 3110 - Racism in America I

ES 3120 - The Civil Rights Movement

ES 3130 - Slavery in the Americas

ES 3146 - Jazz on Film

ES 3147 - The Fictional Africa

ES 3165 - African American Sexuality

ES 3190 - Internationalist Worldview of Malcolm X

ES 3303 - Contemporary African American Women Writers

ES 3691 - Black Literature I

ES 3720 - James Baldwin

ES 3721 - African-American Philosophical Perspectives

ES 3898 - Cooperative Education

Ethnic Studies: American Indian Studies

ES 2320 - American Indian Oral Literature

ES 2400 - Introduction to American Indian Studies

ES 3305 - Contemporary American Indian Life

ES 3310 - God is Red: American Indian World View

ES 3330 - American Indian Revitalization Movements

ES 3800 - Peoples of Central America

ES 3898 - Cooperative Education

Ethnic Studies: Asian American Studies

ES 2500 - Introduction to Asian American Studies

ES 3500 - The Afghan Diaspora

ES 3555 - Asian American Family Patterns

ES 3556 - Concentration Camps, U.S.A.

ES 3557 - Asian American Film Festival

ES 3600 - Presumed Guilty: Asian Americans and the Post-9/11 Racialized State

ES 3610 - South Asian American Experience

ES 3898 - Cooperative Education

Ethnic Studies: Genders and Sexualities in Communities of Color

ES 2700 - Introduction to Genders and Sexualities in Communities of Color

ES 3710 - Racialized Masculinities

ES 3730 - Women of Color, Genders and Sexualities

ES 3898 - Cooperative Education

ES 4300 - Queer of Color Subjects and Critical Theory

Ethnic Studies: Latino/a Studies

ES 2200 - Introduction to Latino/a and Latin American Studies

ES 3210 - Latinas in the United States

ES 3255 - The Chicano Movement

ES 3265 - Latino/a Sexualities

ES 3805 - Latin American Immigration

ES 3898 - Cooperative Education

ES 4290 - Latino Politics and Public Policy

LAST 3260 - Latin American Women and Globalization

LAST 3999 - Issues in LAST

Finance

FIN 2300 - Personal Finance

FIN 3300 - Financial Management

FIN 3360 - Management of Risk and Insurance

FIN 3400 - Principles of Real Estate

FIN 3410 - Real Estate Practice

FIN 3420 - Real Estate Law

FIN 3898 - Cooperative Education

FIN 3999 - Issues in Finance

FIN 4300 - Corporate Finance

FIN 4305 - Entrepreneurial Finance

FIN 4310 - Investment Analysis

FIN 4315 - Derivatives Markets

FIN 4320 - Problems in Corporate Finance

FIN 4328 - Risk Management in Financial Institutions

FIN 4330 - Financial Modeling

FIN 4370 - Seminar in Financial Theory

FIN 4375 - International Business Finance

FIN 4410 - Real Estate Finance and Investment

FIN 4415 - Real Estate Valuation

FIN 4420 - Sustainable Real Estate Development

FIN 4470 - Real Estate Markets and Housing Policies

FIN 4900 - Independent Study

Finance: Graduate

FIN 6215 - Corporate Financial Management

FIN 6305 - New Venture Financing

FIN 6310 - Seminar in Security Analysis and Portfolio Management

FIN 6315 - Seminar in Options and Futures

FIN 6320 - Studies in Financial Markets

FIN 6325 - Financial Management of Banking Institutions

FIN 6375 - International Financial Management

FIN 6898 - Cooperative Education

FIN 6900 - Independent Study

FIN 6909 - Departmental Thesis

FIN 6910 - University Thesis

FIN 6999 - Issues in Finance

General Studies

GS 1010 - General Education Activities

GS 1011 - General Studies Activities I

GS 1021 - General Studies Activities II

GS 1031 - General Studies Activities III

GS 1099 - Academic Decathlon

GS 2500 - Peer Mentoring Practicum

GS 3000 - McNair Scholars Seminar

GS 3099 - Honors Leadership and Service

GS 3999 - Honors Seminar

GS 4010 - Tutoring for Learning: Theory and Practice

Geography

GEOG 2100 - Physical Geography

GEOG 2300 - Cultural Geography

GEOG 2310 - Economic and Resource Geography

GEOG 2400 - Geography of World Development

GEOG 2600 - Introduction to GIS

GEOG 3000 - Sustainable Resource Management

GEOG 3030 - Fundamentals of Geographic Information Systems

GEOG 3115 - Physical Landscape Analysis

GEOG 3120 - Climate Change

GEOG 3200 - Asian Americans: Spatial Disparity and Multiculturalism

GEOG 3320 - Food, Culture and Environment

GEOG 3360 - Historical Geography of North America

GEOG 3405 - Field Regional Geography

GEOG 3410 - Air-Photo Interpretation

GEOG 3450 - Literature and Research Methods

GEOG 3480 - Applied Field Studies

GEOG 3500 - Geography of the United States and Canada

GEOG 3505 - Geography of California

GEOG 3540 - China and Japan

GEOG 3550 - Geography of Southeast Asia

GEOG 3600 - Cartographic Principles and Graphic Communication

GEOG 3605 - Computer Cartography

GEOG 3898 - Cooperative Education

GEOG 3999 - Issues in Geography

GEOG 4130 - Biogeography

GEOG 4320 - Energy and Society

GEOG 4330 - Sustainable Development

GEOG 4350 - Water Resources and Management

GEOG 4425 - Remote Sensing of Earth Environments

GEOG 4605 - Applications of GIS

GEOG 4900 - Independent Study

Geography: Graduate

GEOG 6010 - Seminar on Research Theory and Philosophy of Geography

GEOG 6100 - Seminar in Physical Geography

GEOG 6300 - Seminar in Cultural Geography

GEOG 6400 - Seminar in Historical Geography

GEOG 6500 - Seminar in Regional Geography

GEOG 6660 - Seminar in Human Impacts on the Natural Environment

GEOG 6780 - Seminar in Environmental Planning

GEOG 6820 - Seminar in Sustainable Cities

GEOG 6899 - Project

GEOG 6900 - Independent Study

GEOG 6909 - Departmental Thesis

GEOG 6910 - University Thesis

GEOG 6999 - Issues in Geography

Geology

GEOL 1000 - Earth Systems Science

GEOL 1001 - Introduction to the Earth Sciences

GEOL 1002 - Earth Sciences Laboratory

GEOL 1003 - How Earth Systems Work

GEOL 1005 - Earth Science

GEOL 1006 - Earth Systems and Energy

GEOL 1201 - Introduction to Oceanography

GEOL 1202 - Oceanography Laboratory

GEOL 2000 - Introduction to the Geology of California

GEOL 2101 - Physical Geology

GEOL 2102 - Earth and Life Through Time

GEOL 2210 - Environmental Geology

GEOL 2211 - Environmental Geology Laboratory

GEOL 2300 - Natural Disasters

GEOL 2301 - Natural Hazards

GEOL 2600 - Introduction to GIS

GEOL 3011 - Foundational Earth Science

GEOL 3012 - Foundational Earth Science Laboratory

GEOL 3040 - Weather and the Atmosphere

GEOL 3050 - Volcanoes and Plate Tectonics

GEOL 3080 - Earth Science Hands-On Laboratory

GEOL 3100 - Geology of the Western National Parks

GEOL 3110 - Principles of Geomorphology

GEOL 3400 - General Oceanography

GEOL 3401 - The Oceans

GEOL 3500 - Environmental Hydrology

GEOL 3601 - Mineralogy and Optical Crystallography

GEOL 3701 - Igneous and Metamorphic Petrology

GEOL 3801 - Sedimentology and Stratigraphy

GEOL 3810 - Structural Geology

GEOL 3898 - Cooperative Education

GEOL 3910 - Geologic Field Methods

GEOL 3999 - Issues in Geological Sciences

GEOL 4010 - Applied Geophysics

GEOL 4020 - Seismic Exploration

GEOL 4130 - Survey of Geochemistry

GEOL 4140 - Hazardous Waste Management

GEOL 4200 - Introduction to Planetary Science

GEOL 4320 - Hydrogeology

GEOL 4414 - Earthquake Geology

GEOL 4600 - GIS for Earth Sciences

GEOL 4800 - Seminar

GEOL 4900 - Independent Study

GEOL 4910 - Senior Thesis

Geology: Graduate

GEOL 6020 - Seismic Exploration

GEOL 6030 - Earthquake Seismology

GEOL 6040 - Near Surface Geophysics

GEOL 6300 - Quaternary Geology

GEOL 6310 - Isotope Geochemistry

GEOL 6320 - Groundwater

GEOL 6411 - Engineering Geology

GEOL 6412 - Advanced Igneous and Metamorphic Petrology

GEOL 6414 - Earthquake Geology

GEOL 6415 - Advanced Sedimentary Petrology

GEOL 6420 - Internship

GEOL 6430 - Tectonic Geomorphology

GEOL 6440 - Structural Styles of Plate Margins and Regions

GEOL 6620 - Advanced Topics in Geology

GEOL 6811 - Graduate Seminar

GEOL 6899 - Project

GEOL 6900 - Independent Study

GEOL 6910 - University Thesis

GEOL 6999 - Issues in Geological Sciences

Health Care Administration: Graduate

HCA 6200 - US Health Care System

HCA 6201 - Introduction to Health Informatics

HCA 6202 - Project and Change Management in Health Informatics

HCA 6203 - Quality Improvement Using Health Informatics

HCA 6204 - Business, Legal, and Ethical Aspects of Health Informatics

HCA 6205 - Bioinformatics in Health Care Administration

HCA 6206 - Public Health Informatics

HCA 6210 - Leadership and Change in Health Care Organizations

HCA 6225 - Organization Theory and Behavior in Health Care

HCA 6230 - Information Technology in Health Care

HCA 6240 - Health Care Financing and Budgeting

HCA 6250 - Strategic Management of Health Care Organizations

HCA 6260 - Health Care Policy Analysis

HCA 6270 - Health Care Management

HCA 6275 - Evolution of Managed Health Care

HCA 6280 - Legal and Ethical Issues in Health Care

HCA 6290 - Health Care Quality Assessment and Improvement

HCA 6893 - Internship in Health Care Administration

HCA 6898 - Cooperative Education

HCA 6899 - Project

HCA 6900 - Independent Study

HCA 6999 - Issues in Health Care Administration

Health Sciences

HSC 1000 - Introduction to Health Professions Practice

HSC 1100 - Health: Maintenance of Wellness

HSC 2001 - Environmental Factors in Health

HSC 2200 - Research and Writing in Health Care

HSC 2500 - Principles of Personal Nutrition

HSC 2510 - Introduction to Peer Health Education

HSC 2550 - Peer Health Education Practicum

HSC 3100 - Introduction to Global Health

HSC 3200 - Environmental Health

HSC 3250 - Genes and Human Health

HSC 3300 - Health Care Systems in the U.S.

HSC 3350 - Health Legislation and Government Programs

HSC 3400 - Community Health

HSC 3410 - Epidemiology for Health Sciences

HSC 3550 - Health Care Law and Ethics

HSC 3690 - Health Economics and Public Policy

HSC 3700 - Health Behavior and Health Education Theory

HSC 3720 - Medical Humanities

HSC 3800 - Multicultural Issues in Health Care

HSC 3898 - Cooperative Education

HSC 3999 - Issues in Health Sciences

HSC 4010 - Research and Program Evaluation in Health Science

HSC 4500 - Supervised Field Training and Report Writing

HSC 4600 - Health Systems Management

HSC 4650 - Advanced Principles of Health Care Management

HSC 4700 - Senior Seminar

HSC 4900 - Independent Study

History

HIST 1014 - World Civilizations I

HIST 1015 - World Civilizations II

HIST 1016 - World Civilizations III

HIST 1017 - Ancient World Civilizations

HIST 1101 - History of the United States to 1877

HIST 1102 - History of the United States Since 1877

HIST 2010 - Introduction to History

HIST 2040 - Humanity, Science and Nature in History

HIST 3010 - Historical Writing

HIST 3017 - The Twentieth Century

HIST 3100 - Ancient Egyptian Civilization

HIST 3898 - Cooperative Education

HIST 3999 - Issues in History

HIST 4010 - History Internship

HIST 4030 - Historiography

HIST 4031 - Historical Research Methods

HIST 4032 - Introduction to Public History

HIST 4033 - Introduction to Teaching History

HIST 4500 - The California History/Social Science Framework

HIST 4710 - History and Trends in Nursing

HIST 4900 - Independent Study

History: Asia

HIST 3302 - Modern East Asia Through Film

HIST 3303 - Precolonial India

HIST 3305 - Modern South Asia

HIST 3307 - Modern India through Film

HIST 3311 - Traditional China

HIST 3312 - Modern China

HIST 3313 - People's Republic of China

HIST 3322 - Early Japan

HIST 3323 - Modern Japan

HIST 3325 - Postwar Japan

HIST 3340 - The Middle East and Rise of Islamic Societies

HIST 3345 - The Modern Middle East

HIST 3803 - Topics in Asian History

History: Europe

HIST 3005 - Frankenstein: The Making of a Myth

HIST 3107 - History of Ancient Greece

HIST 3108 - History of Ancient Rome

HIST 3114 - History of Early Christianity

HIST 3123 - History of Medieval Christianity

HIST 3125 - Women in Medieval and Early Modern Europe

HIST 3127 - Europe in the Early Middle Ages

HIST 3128 - Europe in the Later Middle Ages

HIST 3130 - Renaissance and Reformation Europe

HIST 3150 - Early Modern Europe, 1550-1789

HIST 3160 - Europe in the 19th Century

HIST 3170 - Europe in the 20th Century

HIST 3223 - History of the Soviet Union

HIST 3224 - The Cold War

HIST 3230 - Science and Medicine to 1700

HIST 3801 - Topics in European History

History: Graduate

HIST 6010 - Seminar in History

HIST 6030 - Graduate Historiography

HIST 6050 - History Graduate Portfolio

HIST 6100 - Conference Course in Ancient and Medieval History

HIST 6200 - Conference Course in European History

HIST 6300 - Conference Course in Asian and Middle Eastern History

HIST 6400 - Conference Course in United States History

HIST 6898 - Cooperative Education

HIST 6899 - Project

HIST 6900 - Independent Study

HIST 6901 - Internship in Public History

HIST 6905 - Directed Readings in History

HIST 6909 - Departmental Thesis

HIST 6910 - University Thesis

HIST 6999 - Issues in History

History: Latin America

HIST 3600 - Colonial Latin America

HIST 3605 - Modern Latin America

HIST 3622 - Mexico Since 1810

HIST 3632 - Film and Society in Latin America

HIST 3804 - Topics in Latin American History

History: United States

HIST 3400 - America to 1900

HIST 3411 - Colonial America

HIST 3412 - The American Revolution

HIST 3413 - The New Republic

HIST 3414 - Civil War and Reconstruction

HIST 3415 - America in the Age of Empire

HIST 3416 - The Great Depression and World War II

HIST 3417 - Cold War America

HIST 3500 - History of California

HIST 3503 - History of the San Francisco Bay Area

HIST 3505 - California Environmental History

HIST 3511 - The American West

HIST 3515 - Mexican Americans and the West

HIST 3517 - The Immigrants' West

HIST 3530 - The Shaping of North America, 1492-1850

HIST 3535 - American Indian History

HIST 3538 - American Indians in the 20th Century

HIST 3547 - The United States and Modern War

HIST 3550 - The History of U.S. Foreign Relations

HIST 3553 - Modern American Thought and Culture

HIST 3557 - Digging in the Dirt in American History

HIST 3570 - The Family and Sexuality in American History

HIST 3571 - Women in American History

HIST 3572 - American Women in the Twentieth Century

HIST 3802 - Topics in United States History

Hospitality and Tourism

HOS 1100 - Introduction to Hospitality and Tourism

HOS 3999 - Issues in Hospitality and Tourism

HOS 4502 - Special Events Management 2

HOS 4505 - Hospitality Information Technology

HOS 4510 - Lodging Management

HOS 4520 - Promotion of Leisure and Hospitality

HOS 4530 - Principles of Meetings, Conventions and Special Events

HOS 4540 - Fiscal Leadership for Operational Managers

HOS 4550 - Global Tourism

HOS 4560 - Food and Beverage Management

HOS 4570 - Dimensions in Tourism

HOS 4590 - Hospitality Law

HOS 4901 - Hospitality Internship Placement

HOS 4912 - Hospitality Internship and Senior Project

Human Development

HDEV 1301 - The Human Condition

HDEV 2010 - Introduction to Early Childhood

HDEV 3101 - Lifespan Physical and Cognitive Development

HDEV 3102 - Lifespan Social and Emotional Development

HDEV 3103 - Social and Cultural Dynamics of Human Development

HDEV 3201 - Theories of Human Development

HDEV 3202 - Research Methods in Human Development

HDEV 3203 - Applying Theory and Methods of Human Development

HDEV 3301 - Child Development

HDEV 3302 - Foundational Aspects of Adolescent Development

HDEV 3303 - Adult Development and Aging

HDEV 3304 - Girls and Women Across the Lifespan

HDEV 3800 - Human Development and Interaction

HDEV 3999 - Issues in Human Development

HDEV 4010 - Early Childhood Cognitive Development

HDEV 4030 - Early Childhood Social Development

HDEV 4060 - Creative and Artistic Development in Early Childhood

HDEV 4110 - Child Cognitive Development

HDEV 4120 - Child Language Development

HDEV 4130 - The Social Development of Children

HDEV 4140 - Theories of Childhood

HDEV 4150 - Children in Families and Communities

HDEV 4220 - Contemporary Research Topics in Adolescent Development

HDEV 4230 - Prevention and Intervention in Adolescent Development

HDEV 4310 - Human Development in the Changing Workplace

HDEV 4361 - Current Issues in Aging

HDEV 4362 - Aging and Diversity

HDEV 4363 - Cognitive Aging

HDEV 4430 - Intimate Relationships Throughout the Lifespan

HDEV 4440 - Lesbian and Gay Lifespan Development

HDEV 4450 - Human Development and Conflict in Contemporary Society

HDEV 4811 - Senior Research Seminar in Human Development I

HDEV 4812 - Senior Research Seminar in Human Development II

HDEV 4860 - Internship in Human Development

HDEV 4900 - Independent Study

Humanities

HUM 2010 - Introduction to Liberal Studies

HUM 3999 - Issues in Humanities

HUM 4020 - Senior Seminar

Industrial Engineering

INDE 3020 - Work Design and Measurement

INDE 3101 - Statics and Dynamics

INDE 3140 - Engineering Economy

INDE 3190 - Human Factors Engineering

INDE 3601 - Statistics and Probability for Science and Engineering I

INDE 3602 - Statistics and Probability for Science and Engineering II

INDE 3841 - Operations Research

INDE 3898 - Cooperative Education

INDE 3999 - Issues in Industrial Engineering

INDE 4090 - Economic Decision Systems

INDE 4100 - Production Planning and Control

INDE 4180 - Product-Process Design

INDE 4200 - Systems Simulation

INDE 4280 - Design and Management of Human Work Systems

INDE 4300 - Quality Engineering

INDE 4350 - Reliability Engineering

INDE 4400 - Systems Modeling

INDE 4430 - Facilities Planning and Design

INDE 4440 - Computer Integrated Manufacturing Systems

INDE 4610 - Senior Design I

INDE 4620 - Senior Design II

INDE 4900 - Independent Study

Information Literacy

LIBY 1210 - Introduction to Information Literacy

LIBY 1551 - Information Skills in the Electronic Age

Information Technology Management

ITM 1270 - Fundamentals of Information Systems and Applications

ITM 3060 - Information Technology Management

ITM 3898 - Cooperative Education

ITM 3999 - Issues in Information Technology Management

ITM 4271 - Database Management and Applications

ITM 4272 - Information Technology and Telecommunication Systems

ITM 4273 - Business Intelligence Systems

ITM 4277 - Information Systems Development and Management

ITM 4278 - E-Business Systems Development

ITM 4900 - Independent Study

Information Technology Management: Graduate

ITM 6015 - Information Systems Development and Management

ITM 6130 - Enterprise Management Systems

ITM 6271 - Database Management and Applications

ITM 6273 - Big Data Technologies and Applications

ITM 6280 - Data Warehousing

ITM 6285 - Data Mining

ITM 6898 - Cooperative Education

ITM 6899 - Project

ITM 6900 - Independent Study

ITM 6909 - Departmental Thesis

ITM 6999 - Issues in Information Technology Management

International Studies

INTS 3100 - Global Systems

INTS 3999 - Issues in International Studies

INTS 4100 - International Field Work

INTS 4500 - Senior Seminar

INTS 4900 - Independent Study

Kinesiology

KIN 1000 - Beginning Activities: Badminton

KIN 1001 - Beginning Activities: Basketball

KIN 1007 - Beginning Activities: Swimming

KIN 1009 - Beginning Activities: Volleyball

KIN 1011 - Beginning Circuit Training

KIN 1012 - Beginning Activities: Fitness Training

KIN 1013 - Beginning Activities: Judo

KIN 1015 - Hapkido Self Defense

KIN 1016 - Beginning Activities: Taekwondo Karate

KIN 1017 - Beginning Activities: Soccer

KIN 1018 - Beginning Activities: Self Defense-Women

KIN 1021 - Beginning Activities: Golf

KIN 1024 - Beginning Activities: Tennis

KIN 1028 - Beginning Activities: Jogging

KIN 1032 - Beginning Activities: Aerobic Fitness: Lap Swimming

KIN 1034 - Beginning Activities: Yoga

KIN 1035 - Beginning Activities: Tai Chi

KIN 1036 - Dance Fitness

KIN 1038 - Beginning Activities: Aerobic Fitness: Kick Box

KIN 1041 - Beginning Activities: Aerobic Condition

KIN 1043 - Beginning Pilates

KIN 1044 - Beginning Boot Camp Fitness

KIN 1045 - Beginning Activities: Firm and Tone

KIN 1047 - Beginning Activities: Indoor Soccer

KIN 1048 - Soccer-Tennis

KIN 1049 - Beginning Activities: Aerobic Walking

KIN 1052 - Beginning Water Polo

KIN 1054 - Beginning Flag Football

KIN 1055 - Beginning Table Tennis

KIN 1056 - Ultimate

KIN 1111 - Physical Activity and Social Justice

KIN 1610 - Introduction to Kinesiology

KIN 1625 - Nutrition and Performance

KIN 1626 - Nutrition and Performance for Bodies at Play

KIN 2000 - Intermediate Activities: Badminton

KIN 2001 - Intermediate Activities: Basketball

KIN 2007 - Intermediate Activities: Swimming

KIN 2009 - Intermediate Activities: Volleyball

KIN 2010 - Intermediate Activities: Weight Training

KIN 2011 - Intermediate Circuit Training

KIN 2012 - Intermediate Activities: Fitness Training

KIN 2016 - Intermediate Activities: Taekwondo

KIN 2017 - Intermediate Activities: Soccer

KIN 2024 - Intermediate Activities: Tennis

KIN 2034 - Intermediate Yoga

KIN 2035 - Intermediate Activities: Tai Chi

KIN 2038 - Intermediate Activities: Kick Boxing

KIN 2040 - Intermediate Activities: Varied Activities

KIN 2041 - Intermediate Activities: Aerobic Conditioning

KIN 2047 - Intermediate Activities: Indoor Soccer

KIN 2054 - Intermediate Flag Football

KIN 2055 - Intermediate Table Tennis

KIN 2300 - Nutrition for Healthy Bodies

KIN 2600 - Prevention and Care of Athletic Injuries

KIN 2650 - CPR and First Aid

KIN 2700 - Women and Sport

KIN 3072 - Individual and Dual Sports

KIN 3075 - Aquatics and Outdoor Education

KIN 3079 - Combatives and Fitness Activities

KIN 3080 - Team Sports and Field Sports

KIN 3200 - Sport in Film: Cultural Perspectives

KIN 3205 - Mental Skills for Performance

KIN 3210 - Science of Expertise

KIN 3251 - Physical Education for the Classroom Teacher: Physical Considerations

KIN 3252 - Physical Education for the Classroom Teacher: Psycho-Social Considerations

KIN 3255 - Fitness and Wellness for a Lifetime

KIN 3300 - Critical Inquiry in Kinesiology

KIN 3305 - Structural Kinesiology

KIN 3310 - Biomechanics

KIN 3320 - Exercise Physiology

KIN 3330 - Motor Learning and Control

KIN 3340 - Motor Development

KIN 3350 - Sport and Exercise Psychology

KIN 3500 - Advanced Activities: Advanced Badminton

KIN 3501 - Advanced Activities: Advanced Basketball

KIN 3510 - Advanced Activities: Advanced Weight Training

KIN 3516 - Advanced Activities: Advanced Taekwondo

KIN 3517 - Advanced Activities: Advanced Soccer

KIN 3521 - Advanced Activities: Advanced Golf

KIN 3524 - Advanced Activities: Advanced Tennis

KIN 3534 - Advanced Activities: Advanced Yoga

KIN 3534 - Advanced Yoga

KIN 3542 - Aerobic Instructor Training

KIN 3545 - Competition Conditioning

KIN 3547 - Advanced Activities: Advanced Indoor Soccer

KIN 3561 - Water Safety Instructor

KIN 3600 - Evaluation and Care of Athletic Injuries

KIN 3601 - Athletic Training: Modalities and Rehabilitation

KIN 3700 - History of Sport and Physical Education

KIN 3701 - History of Physical Activity

KIN 3735 - Sport, Racism, and Ethnicity

KIN 3740 - Philosophical Foundations of Kinesiology

KIN 3750 - Sport in Contemporary Society

KIN 3999 - Issues in Kinesiology and Physical Education

KIN 4004 - Elementary School Physical Education

KIN 4005 - Exercise Nutrition and Metabolism

KIN 4006 - Secondary School Physical Education

KIN 4008 - Adapted Physical Activity

KIN 4010 - Contemporary Perspectives in Exercise Nutrition

KIN 4030 - Professional Field Experience I

KIN 4031 - Professional Field Experience II

KIN 4051 - Intercollegiate Sports: Basketball (men)

KIN 4053 - Intercollegiate Sports: Baseball (men)

KIN 4054 - Intercollegiate Sports: Cross-country

KIN 4055 - Intercollegiate Sports: Intercollegiate Outdoor Track

KIN 4058 - Intercollegiate Sports: Intercollegiate Golf

KIN 4062 - Intercollegiate Sports: Basketball (women)

KIN 4068 - Intercollegiate Sports: Volleyball (women)

KIN 4069 - Intercollegiate Sports: Soccer (men)

KIN 4074 - Intercollegiate Sports: Softball (women)

KIN 4077 - Intercollegiate Sports: Swimming (women)

KIN 4078 - Intercollegiate Sports: Water Polo (women)

KIN 4083 - Intercollegiate Sports: Soccer (women)

KIN 4090 - Computer Application in Kinesiology

KIN 4330 - Clinical Exercise Physiology

KIN 4600 - Athletic Training Practicum

KIN 4610 - Exercise Prescription

KIN 4614 - Exercise and Well-Being

KIN 4615 - Exercise and Stress

KIN 4900 - Independent Study

Kinesiology: Graduate

KIN 5900 - Independent Study

KIN 6000 - Foundations of Graduate Study and Research

KIN 6411 - Psychology of Physical Activity

KIN 6412 - Psychomotor Skill Acquisition

KIN 6413 - Mental Skills for Physical Performance

KIN 6416 - Exercise Psychology

KIN 6425 - Political Issues in Kinesiology

KIN 6435 - Critical Perspectives on the Body

KIN 6445 - Social Inclusion in Physical Activity

KIN 6470 - Seminar in Exercise and Nutrition

KIN 6480 - Legal Applications in Kinesiology

KIN 6605 - Teaching and Coaching Effectiveness

KIN 6615 - Sport Education

KIN 6655 - Physiological Perspectives on Health and Wellness

KIN 6670 - Training for Physical Performance

KIN 6700 - Seminar: Contemporary Issues in Kinesiology

KIN 6710 - Synthesis in Kinesiology

KIN 6850 - Supervised Research

KIN 6899 - Project

KIN 6900 - Independent Study

KIN 6909 - Departmental Thesis

KIN 6910 - University Thesis

KIN 6999 - Issues in Kinesiology and Physical Education

Management

MGMT 3100 - Decision Science

MGMT 3110 - Project Management

MGMT 3115 - Supply Chain Data Analytics

MGMT 3560 - Business and Professional Ethics

MGMT 3600 - Theories of Management

MGMT 3610 - Strategic Human Resources Management

MGMT 3612 - Seminar in Human Resources Management

MGMT 3614 - Organizational Behavior

MGMT 3616 - Human Resources Assessment and Measurement

MGMT 3620 - Operations Management

MGMT 3624 - Supply Management and E-Procurement

MGMT 3626 - Management for Quality Improvement

MGMT 3645 - Global Supply Chain Management

MGMT 3680 - Employee Relations and Employment Law

MGMT 3898 - Cooperative Education

MGMT 3999 - Issues in Management

MGMT 4500 - Business, Government, and Society

MGMT 4520 - Negotiation and Conflict Resolution

MGMT 4615 - Compensation and Reward Systems

MGMT 4618 - Human Resources Training and Development

MGMT 4625 - Service Operations Management

MGMT 4640 - Enterprise Resource Management

MGMT 4650 - Seminar in Strategic Business Management

MGMT 4660 - Seminar in Operations and Supply Chain Management

MGMT 4670 - Multinational Business

MGMT 4675 - International Human Resources Management

MGMT 4900 - Independent Study

MGMT 6165 - Prescriptive Analytics

Management: Graduate

MGMT 6015 - Data Analysis and Decision Modeling for Managers

MGMT 6115 - E-Commerce Enterprise Management

MGMT 6120 - Globalization, Innovation and Sustainability

MGMT 6125 - Purchasing Management and Strategic Sourcing

MGMT 6130 - Enterprise Planning and Control

MGMT 6141 - Service Operations Management

MGMT 6145 - Logistics Management

MGMT 6150 - Global Supply Chain Management

MGMT 6155 - Applied Project Management

MGMT 6160 - Data Analytics

MGMT 6215 - Business, Government and Society

MGMT 6220 - Operations and Supply Chain Management

MGMT 6225 - Executive Leadership

MGMT 6285 - Data Mining

MGMT 6420 - Competitive Strategy

MGMT 6440 - Global Strategy

MGMT 6460 - Strategic Management for a Sustainable Society

MGMT 6470 - Management of Technology and Innovation

MGMT 6520 - Negotiation for Managers and Entrepreneurs

MGMT 6560 - High Performance Management

MGMT 6612 - Strategic Human Resources: Frameworks for General Managers

MGMT 6613 - Topics in Human Resource Management

MGMT 6615 - Strategic Compensation, Incentives, and Productivity

MGMT 6618 - Selecting, Maintaining and Retaining Employees

MGMT 6622 - Human Resources Analytics

MGMT 6675 - International Human Resource Management

MGMT 6800 - Seminar in Strategic Management

MGMT 6898 - Cooperative Education

MGMT 6900 - Independent Study

MGMT 6909 - Departmental Thesis

MGMT 6910 - University Thesis

MGMT 6999 - Issues in Management Sciences

Marine Science

GEOL 4141 - Geological Oceanography

GEOL 4142 - Physical Oceanography

GEOL 4143 - Chemical Oceanography

GEOL 4900 - Independent Study

MSC 4103 - Marine Ecology

MSC 4104 - Quantitative Marine Science

MSC 4105 - Marine Science Diving

MSC 4112 - Marine Birds and Mammals

MSC 4113 - Marine Ichthyology

MSC 4124 - Marine Invertebrate Zoology I

MSC 4125 - Intertidal Invertebrates of California

MSC 4131 - Marine Botany

MSC 4135 - Physiological Ecology of Marine Algae

MSC 4144 - Biological Oceanography

MSC 4900 - Independent Study

Marine Science: Graduate

Units are quarter units, class hours are weekly on semester calendar.

MSC 6201 - Graduate Studies in Marine Science: Library Research

MSC 6202 - Oceanographic Instrumentation

MSC 6204 - Sampling and Experimental Design

MSC 6206 - Molecular Biological Techniques

MSC 6208 - Scientific Methods

MSC 6211 - Ecology of Marine Birds and Mammals

MSC 6212 - Advanced Topics in Marine Vertebrates

MSC 6221 - Advanced Topics in Marine Invertebrates

MSC 6231 - Biology of Seaweeds

MSC 6233 - Advanced Topics in Marine Ecology

MSC 6234 - Advanced Biological Oceanography

MSC 6242 - Plate Tectonics

MSC 6246 - Geology of the Monterey Bay Region

MSC 6248 - Marine Benthic Habitat Techniques

MSC 6251 - Marine Geochemistry

MSC 6261 - Ocean Circulation and Mixing

MSC 6262 - Satellite Oceanography

MSC 6263 - Application of Computers in Oceanography

MSC 6271 - Population Biology

MSC 6272 - Subtidal Ecology

MSC 6273 - Marine Environmental Studies of the Gulf of California

MSC 6274 - Advanced Topics in Oceanography

MSC 6280 - Scientific Writing

MSC 6281 - Coastal Dynamics

MSC 6285 - Graduate Seminar in Marine Science

MSC 6900 - Independent Study

MSC 6910 - University Thesis

Marketing

MKTG 3401 - Marketing Principles

MKTG 3410 - Advertising Management

MKTG 3415 - Personal Selling

MKTG 3425 - Promotion

MKTG 3440 - Products and Pricing

MKTG 3445 - Marketing Research

MKTG 3495 - Business Communication

MKTG 3898 - Cooperative Education

MKTG 3999 - Issues in Marketing and Entrepreneurship

MKTG 4400 - Integrated Marketing Management

MKTG 4412 - Media Planning

MKTG 4415 - Corporate Communications

MKTG 4417 - Consumer Behavior

MKTG 4435 - Services Marketing

MKTG 4450 - Marketing Seminar

MKTG 4470 - International Marketing

MKTG 4585 - E-Commerce Marketing

MKTG 4900 - Independent Study

Marketing: Graduate

MKTG 6120 - Managerial Communication

MKTG 6215 - Marketing Management

MKTG 6401 - Marketing Research

MKTG 6410 - Buyer Behavior

MKTG 6411 - Product Management

MKTG 6412 - Pricing Management

MKTG 6413 - Integrated Marketing Communications

MKTG 6414 - Distribution Management

MKTG 6450 - Seminar in Selected Marketing Topics

MKTG 6470 - International Marketing

MKTG 6898 - Cooperative Education

MKTG 6900 - Independent Study

MKTG 6909 - Departmental Thesis

MKTG 6910 - University Thesis

MKTG 6999 - Issues in Marketing

Mathematics

MATH 1110 - The Nature of Mathematics

MATH 1130 - College Algebra

MATH 1300 - Trigonometry and Analytic Geometry

MATH 1304 - Calculus I

MATH 1305 - Calculus II

MATH 1810 - Mathematics for Business and Social Sciences

MATH 2011 - Number Systems

MATH 2101 - Elements of Linear Algebra

MATH 2150 - Discrete Structures

MATH 2304 - Calculus III

MATH 2305 - Calculus IV

MATH 3000 - Introduction to Abstract Mathematics and Proofs

MATH 3100 - Linear Algebra

MATH 3121 - Abstract Algebra I

MATH 3122 - Abstract Algebra II

MATH 3151 - Combinatorics

MATH 3215 - Geometry I

MATH 3300 - Analysis I

MATH 3301 - Analysis II

MATH 3331 - Differential Equations

MATH 3361 - Ordinary Differential Equations

MATH 3600 - Number Theory

MATH 3750 - Numerical Analysis I

MATH 3841 - Linear Programming

MATH 3875 - Mathematical Physics

MATH 3898 - Cooperative Education

MATH 4012 - Geometry and Measurement

MATH 4013 - Statistics, Data Analysis, and Probability

MATH 4014 - Algebra and Functions

MATH 4030 - Advanced Study of School Mathematics

MATH 4040 - History of Mathematics

MATH 4100 - Mathematical Logic

MATH 4121 - Advanced Algebra

MATH 4151 - Graph Theory

MATH 4215 - Topics in Geometry

MATH 4235 - Introduction to Knot Theory

MATH 4340 - Introduction to Complex Variables

MATH 4350 - Theory of Functions of a Real Variable

MATH 4360 - Introduction to Topology

MATH 4361 - Partial Differential Equations

MATH 4365 - Dynamical Systems

MATH 4750 - Numerical Analysis II

MATH 4841 - Topics in Optimization

MATH 4842 - Advanced Topics in Optimization

MATH 4845 - Fuzzy Sets and Fuzzy Logic

MATH 4900 - Independent Study

MATH 4901 - Senior Seminar

Mathematics: Developmental

MATH 800 - Introduction to Algebra

MATH 805 - Beginning Algebra

MATH 806 - Algebra B

MATH 807 - Algebra C

MATH 900 - Elementary Algebra

MATH 911 - Algebra Lab

MATH 950 - Intermediate Algebra

Mathematics: Education: Graduate

MATH 6015 - Algebra for Teachers

MATH 6025 - Geometry for Teachers

MATH 6035 - Analysis for Teachers

MATH 6045 - Mathematics in the Sciences

MATH 6055 - Discrete Mathematics

MATH 6065 - Connections in Mathematics

MATH 6899 - Project

MATH 6900 - Independent Study

Mathematics: Graduate

MATH 6005 - Teaching Mathematics at the University Level

MATH 6100 - Applied Algebra

MATH 6119 - Advanced Algebra

MATH 6121 - Topics in Advanced Algebra I

MATH 6125 - Introduction to Lie Algebras

MATH 6151 - Advanced Topics in Graph Theory

MATH 6200 - Introduction to Topology

MATH 6201 - Topology

MATH 6235 - Introduction to Knot Theory

MATH 6251 - Symplectic Geometry

MATH 6260 - Computation and Complexity

MATH 6331 - Topics in Differential Equations

MATH 6339 - Introduction to Complex Variables

MATH 6340 - Complex Analysis

MATH 6349 - Theory of Functions of a Real Variable

MATH 6350 - Real Analysis

MATH 6401 - Advanced Probability I

MATH 6501 - Mathematical Statistics I

MATH 6502 - Mathematical Statistics II

MATH 6750 - Topics in Advanced Numerical Analysis

MATH 6840 - Advanced Topics in Linear Optimization

MATH 6842 - Advanced Topics in Optimization

MATH 6865 - Mathematical Modeling

MATH 6870 - Computer Simulation

MATH 6875 - Topics in Mathematical Physics

MATH 6900 - Independent Study

MATH 6910 - University Thesis

MATH 6935 - Mathematical Logic

Modern Languages and Literatures: Spanish-American Literature and Culture

MLL 3461 - Introduction to Spanish-American Literature: 1492 to 1900

MLL 3463 - Introduction to Spanish-American Literature: 1900 to the Present

MLL 3495 - Spanish-American Culture and Civilization

MLL 4495 - A Single Movement, Country or Theme: Spanish American Literature

Modern Languages and Literatures

MLL 1005 - Viewing Diversity

MLL 1831 - Introduction to Asian Thought

MLL 3001 - World Languages in an International Context

MLL 3119 - French Literature in English Translation

MLL 3240 - German Film: from Metropolis to Present German Cinema (in English)

MLL 3612 - Modern Chinese Short Stories (in English)

MLL 3898 - Cooperative Education

MLL 3938 - Italian American Women Through Literature (in English)

MLL 3999 - Issues in Modern Languages and Literatures

MLL 4900 - Independent Study

MLL 5900 - Independent Study

MLL 6900 - Independent Study

Modern Languages and Literatures: Chinese

MLL 1601 - Elementary Mandarin Chinese I

MLL 1602 - Elementary Mandarin Chinese II

MLL 1603 - Elementary Mandarin Chinese III

MLL 1611 - Intensive Elementary Chinese

MLL 2601 - Intermediate Mandarin Chinese I

MLL 2602 - Intermediate Mandarin Chinese II

MLL 2603 - Intermediate Mandarin Chinese III

MLL 3601 - Advanced Reading, Composition and Translation

MLL 3602 - Modern Chinese Literature, Linguistics and Culture

MLL 3603 - Classical Chinese Literature, Rhetoric and Culture

MLL 3611 - New Chinese Cinema

MLL 3612 - Modern Chinese Short Stories

Modern Languages and Literatures: Dari

MLL 1561 - Elementary Dari I

MLL 1562 - Elementary Dari II

MLL 1563 - Elementary Dari III

MLL 2561 - Intermediate Dari I

MLL 2562 - Intermediate Dari II

MLL 2563 - Intermediate Dari III

Modern Languages and Literatures: Filipino

MLL 1651 - Elementary Filipino I

MLL 1652 - Elementary Filipino II

MLL 1653 - Elementary Filipino III

MLL 2652 - Intermediate Filipino II

MLL 2653 - Intermediate Filipino III

Modern Languages and Literatures: French

MLL 1101 - Elementary French I

MLL 1102 - Elementary French II

MLL 1103 - Elementary French III

MLL 2101 - Intermediate French I

MLL 2102 - Intermediate French II

MLL 2103 - Intermediate French III

MLL 2110 - French Conversation

MLL 3101 - Cinema for French Composition

MLL 3102 - Cinema for Advanced French Composition

MLL 3130 - Francophone Culture and Civilization through Cinema

MLL 4100 - French Literary Themes and Figures

MLL 4110 - Francophone Rap/Hip-Hop

Modern Languages and Literatures: German

MLL 1201 - Elementary German I

MLL 1202 - Elementary German II

MLL 1203 - Elementary German III

MLL 3240 - German Film: from Metropolis to Present German Cinema

Modern Languages and Literatures: Italian

MLL 1301 - Italian Culture and Language I

MLL 1302 - Italian Culture and Language II

MLL 1303 - Italian Culture and Language III

Modern Languages and Literatures: Japanese

MLL 1801 - Elementary Japanese I

MLL 1802 - Elementary Japanese II

MLL 1803 - Elementary Japanese III

MLL 2801 - Intermediate Japanese I

MLL 2802 - Intermediate Japanese II

MLL 2803 - Intermediate Japanese III

MLL 3812 - Modern Japanese Short Stories in English Translation

Modern Languages and Literatures: Pashto

MLL 1551 - Elementary Pashto I

MLL 1552 - Elementary Pashto II

MLL 1553 - Elementary Pashto III

MLL 2551 - Intermediate Pashto I

MLL 2552 - Intermediate Pashto II

MLL 2553 - Intermediate Pashto III

Modern Languages and Literatures: Persian

MLL 1951 - Elementary Persian I

MLL 1952 - Elementary Persian II

MLL 1953 - Elementary Persian III

MLL 2951 - Intermediate Persian I

MLL 2952 - Intermediate Persian II

MLL 2953 - Intermediate Persian III

Modern Languages and Literatures: Portuguese

MLL 1851 - Elementary Portuguese I

MLL 1852 - Elementary Portuguese II

MLL 1853 - Elementary Portuguese III

MLL 2851 - Intermediate Portuguese I

MLL 2852 - Intermediate Portuguese II

MLL 2853 - Intermediate Portuguese III

MLL 3851 - Portuguese Grammar and Composition

MLL 3861 - Topics in Portuguese Literature

MLL 3871 - Topics in Brazilian Literature

Modern Languages and Literatures: Russian

MLL 1501 - Elementary Russian I

MLL 1502 - Elementary Russian II

MLL 1503 - Elementary Russian III

MLL 2501 - Intermediate Russian I

MLL 2502 - Intermediate Russian II

MLL 2503 - Intermediate Russian III

MLL 3587 - Topics in Russian Literature and Culture in English

Modern Languages and Literatures: Sign Language

MLL 1901 - Elementary Sign Language I

MLL 1902 - Elementary Sign Language II

MLL 1903 - Elementary Sign Language III

MLL 2901 - Intermediate Sign Language I

MLL 2902 - Intermediate Sign Language II

MLL 2903 - Intermediate Sign Language III

MLL 3902 - Deaf Culture

MLL 3903 - Topics in American Sign Language

MLL 3904 - Sign Language: Field Work

Modern Languages and Literatures: Spanish

MLL 1401 - Elementary Spanish I

MLL 1402 - Elementary Spanish II

MLL 1403 - Elementary Spanish III

MLL 2401 - Intermediate Spanish I

MLL 2402 - Intermediate Spanish II

MLL 2403 - Intermediate Spanish III

MLL 2405 - Intermediate Spanish for Bilingual Speakers II

MLL 2406 - Intermediate Spanish for Bilingual Speakers III

MLL 2407 - Spanish for Health Care Professions I

MLL 2408 - Spanish for Health Care Professions II

MLL 2409 - Spanish for Health Care Professions III

MLL 2410 - Spanish Conversation

MLL 3400 - Introduction to Literary Analysis

MLL 3401 - Advanced Spanish Composition and Syntax, I

MLL 3402 - Advanced Spanish Composition and Syntax, II

MLL 3403 - Advanced Spanish Composition and Syntax, III

MLL 3404 - Spanish Terminology and Translation

MLL 3405 - Advanced Conversation for Community Needs

MLL 3406 - Practical Spanish: Community Service

MLL 3409 - Advanced Spanish Conversation for Health Professions

MLL 3410 - Advanced Spanish Conversation

MLL 3411 - Introduction to Spanish Linguistics

MLL 3412 - Spanish Phonetics

MLL 3420 - Advanced Spanish Conversation for Community Engagement

Modern Languages and Literatures: Spanish Peninsular Literature and Culture

MLL 3418 - Spanish Culture and Civilization

MLL 4455 - Studies in the Golden Age of Spain

MLL 4457 - Survey Spanish Literature I: Medieval and Golden Age

MLL 4458 - Survey Spanish Literature II: 18th Century to Present

MLL 4459 - Studies in Spanish Literature of the Modern Age

MLL 4460 - Studies in 20th Century Spanish Literature

Multimedia: Graduate

MM 6100 - Tech I: Principles of Digital Multimedia

MM 6101 - Multimedia Seminar

MM 6102 - Application of Learning Theories to Multimedia Design

MM 6103 - Business Basics in Multimedia

MM 6110 - Tech II: Multimedia Network and Hardware Development

MM 6120 - Tech III: Multimedia Software Development

MM 6350 - Audio Production for Multimedia

MM 6600 - Interactive Content Development

MM 6805 - Forum

MM 6860 - Introduction to Multimedia Project Development

MM 6870 - Multimedia Development I

MM 6880 - Multimedia Development II

MM 6898 - Cooperative Education

MM 6899 - Project

MM 6900 - Independent Study

MM 6999 - Issues in Multimedia

Music

MUS 4900 - Independent Study

Music: Applied

MUS 1314 - Basic Piano Class I

MUS 1315 - Basic Piano Class II

MUS 1316 - Basic Piano Class III

MUS 1601 - Level 10 Vocal Coaching

MUS 1602 - Level 10 Instrumental Coaching

MUS 1610 - Level 10 Applied Study: Piano

MUS 1611 - Level 10 Applied Study: Organ

MUS 1612 - Level 10 Applied Study: Harpsichord

MUS 1620 - Level 10 Applied Study: Voice

MUS 1630 - Level 10 Applied Study: Violin

MUS 1631 - Level 10 Applied Study: Viola

MUS 1632 - Level 10 Applied Study: Cello

MUS 1633 - Level 10 Applied Study: Bass

MUS 1634 - Level 10 Applied Study: Harp

MUS 1635 - Level 10 Applied Study: Guitar

MUS 1640 - Level 10 Applied Study: Flute

MUS 1641 - Level 10 Applied Study: Oboe

MUS 1642 - Level 10 Applied Study: Clarinet

MUS 1643 - Level 10 Applied Study: Bassoon

MUS 1644 - Level 10 Applied Study: Saxophone

MUS 1650 - Level 10 Applied Study: Trumpet

MUS 1651 - Level 10 Applied Study: French Horn

MUS 1652 - Level 10 Applied Study: Trombone

MUS 1653 - Level 10 Applied Study: Baritone

MUS 1654 - Level 10 Applied Study: Tuba

MUS 1660 - Level 10 Applied Study: Percussion

MUS 1670 - Level 10 Applied Study: Composition

MUS 1680 - Level 10 Applied Study: Conducting

MUS 1685 - Level 10 Applied Study: Interactive and Media Composition

MUS 1690 - Level 10 Applied Study: Jazz Composition

MUS 1691 - Level 10 Applied Study: Jazz Piano and Keyboard

MUS 1692 - Level 10 Applied Study: Jazz Guitar

MUS 1693 - Level 10 Applied Study: Jazz Bass

MUS 1694 - Level 10 Applied Study: Jazz Drums and Percussion

MUS 1695 - Level 10 Applied Study: Jazz Saxophone

MUS 1696 - Level 10 Applied Study: Jazz Trumpet

MUS 1697 - Level 10 Applied Study: Jazz Trombone

MUS 2311 - Intermediate Class Piano I

MUS 2312 - Intermediate Class Piano II

MUS 2313 - Intermediate Class Piano III

MUS 2321 - Basic Voice

MUS 2371 - Basic Guitar

MUS 2601 - Level 20 Vocal Coaching

MUS 2602 - Level 20 Instrumental Coaching

MUS 2610 - Level 20 Applied Study: Piano

MUS 2611 - Level 20 Applied Study: Organ

MUS 2612 - Level 20 Applied Study: Harpsichord

MUS 2620 - Level 20 Applied Study: Voice

MUS 2630 - Level 20 Applied Study: Violin

MUS 2631 - Level 20 Applied Study: Viola

MUS 2632 - Level 20 Applied Study: Cello

MUS 2633 - Level 20 Applied Study: Bass

MUS 2634 - Level 20 Applied Study: Harp

MUS 2635 - Level 20 Applied Study: Guitar

MUS 2640 - Level 20 Applied Study: Flute

MUS 2641 - Level 20 Applied Study: Oboe

MUS 2642 - Level 20 Applied Study: Clarinet

MUS 2643 - Level 20 Applied Study: Bassoon

MUS 2644 - Level 20 Applied Study: Saxophone

MUS 2650 - Level 20 Applied Study: Trumpet

MUS 2651 - Level 20 Applied Study: French Horn

MUS 2652 - Level 20 Applied Study: Trombone

MUS 2653 - Level 20 Applied Study: Baritone

MUS 2654 - Level 20 Applied Study: Tuba

MUS 2660 - Level 20 Applied Study: Percussion

MUS 2670 - Level 20 Applied Study: Composition

MUS 2680 - Level 20 Applied Study: Conducting

MUS 2685 - Level 20 Applied Study: Interactive and Media Composition

MUS 2690 - Level 20 Applied Study: Jazz Composition

MUS 2691 - Level 20 Applied Study: Jazz Piano and Keyboard

MUS 2692 - Level 20 Applied Study: Jazz Guitar

MUS 2693 - Level 20 Applied Study: Jazz Bass

MUS 2694 - Level 20 Applied Study: Jazz Drums and Percussion

MUS 2695 - Level 20 Applied Study: Jazz Saxophone

MUS 2696 - Level 20 Applied Study: Jazz Trumpet

MUS 2697 - Level 20 Applied Study: Jazz Trombone

MUS 3601 - Level 30 Vocal Coaching

MUS 3602 - Level 30 Instrumental Coaching

MUS 3609 - Recital

MUS 3610 - Level 30 Applied Study: Piano

MUS 3611 - Level 30 Applied Study: Organ

MUS 3612 - Level 30 Applied Study: Harpischord

MUS 3620 - Level 30 Applied Study: Voice

MUS 3630 - Level 30 Applied Study: Violin

MUS 3631 - Level 30 Applied Study: Viola

MUS 3632 - Level 30 Applied Study: Cello

MUS 3633 - Level 30 Applied Study: Bass

MUS 3634 - Level 30 Applied Study: Harp

MUS 3635 - Level 30 Applied Study: Guitar

MUS 3640 - Level 30 Applied Study: Flute

MUS 3641 - Level 30 Applied Study: Oboe

MUS 3642 - Level 30 Applied Study: Clarinet

MUS 3643 - Level 30 Applied Study: Bassoon

MUS 3644 - Level 30 Applied Study: Saxophone

MUS 3650 - Level 30 Applied Study: Trumpet

MUS 3651 - Level 30 Applied Study: French Horn

MUS 3652 - Level 30 Applied Study: Trombone

MUS 3653 - Level 30 Applied Study: Baritone

MUS 3654 - Level 30 Applied Study: Tuba

MUS 3660 - Level 30 Applied Study: Percussion

MUS 3670 - Level 30 Applied Study: Composition

MUS 3680 - Level 30 Applied Study: Conducting

MUS 3685 - Level 30 Applied Study: Interactive and Media Composition

MUS 3690 - Level 30 Applied Study: Jazz Composition

MUS 3691 - Level 30 Applied Study: Jazz Piano and Keyboard

MUS 3692 - Level 30 Applied Study: Jazz Guitar

MUS 3693 - Level 30 Applied Study: Jazz Bass

MUS 3694 - Level 30 Applied Study: Jazz Drums and Percussion

MUS 3695 - Level 30 Applied Study: Jazz Saxophone

MUS 3696 - Level 30 Applied Study: Jazz Trumpet

MUS 3697 - Level 30 Applied Study: Jazz Trombone

MUS 4601 - Level 40 Vocal Coaching

MUS 4602 - Level 40 Instrumental Coaching

MUS 4609 - Level 40 Recital

MUS 4610 - Level 40 Applied Study: Piano

MUS 4611 - Level 40 Applied Study: Organ

MUS 4612 - Level 40 Applied Study: Harpsichord

MUS 4620 - Level 40 Applied Study: Voice

MUS 4630 - Level 40 Applied Study: Violin

MUS 4631 - Level 40 Applied Study: Viola

MUS 4632 - Level 40 Applied Study: Cello

MUS 4633 - Level 40 Applied Study: Bass

MUS 4634 - Level 40 Applied Study: Harp

MUS 4635 - Level 40 Applied Study: Guitar

MUS 4640 - Level 40 Applied Study: Flute

MUS 4641 - Level 40 Applied Study: Oboe

MUS 4642 - Level 40 Applied Study: Clarinet

MUS 4643 - Level 40 Applied Study: Bassoon

MUS 4644 - Level 40 Applied Study: Saxophone

MUS 4650 - Level 40 Applied Study: Trumpet

MUS 4651 - Level 40 Applied Study: French Horn

MUS 4652 - Level 40 Applied Study: Trombone

MUS 4653 - Level 40 Applied Study: Baritone

MUS 4654 - Level 40 Applied Study: Tuba

MUS 4660 - Level 40 Applied Study: Percussion

MUS 4670 - Level 40 Applied Study: Composition

MUS 4680 - Level 40 Applied Study: Conducting

MUS 4685 - Level 40 Applied Study: Interactive and Media Composition

MUS 4690 - Level 40 Applied Study: Jazz Composition

MUS 4691 - Level 40 Applied Study: Jazz Piano and Keyboard

MUS 4692 - Level 40 Applied Study: Jazz Guitar

MUS 4693 - Level 40 Applied Study: Jazz Bass

MUS 4694 - Level 40 Applied Study: Jazz Drums and Percussion

MUS 4695 - Level 40 Applied Study: Jazz Saxophone

MUS 4696 - Level 40 Applied Study: Jazz Trumpet

MUS 4697 - Level 40 Applied Study: Jazz Trombone

Music: Applied: Graduate

MUS 6280 - Advanced Applied Conducting

MUS 6601 - Graduate Vocal Coaching

MUS 6602 - Graduate Instrumental Coaching

MUS 6610 - Graduate Applied Study: Piano

MUS 6611 - Graduate Applied Study: Organ

MUS 6612 - Graduate Applied Study: Harpsichord

MUS 6620 - Graduate Applied Study: Voice

MUS 6630 - Graduate Applied Study: Violin

MUS 6631 - Graduate Applied Study: Viola

MUS 6632 - Graduate Applied Study: Cello

MUS 6633 - Graduate Applied Study: Bass

MUS 6634 - Graduate Applied Study: Harp

MUS 6635 - Graduate Applied Study: Guitar

MUS 6640 - Graduate Applied Study: Flute

MUS 6641 - Graduate Applied Study: Oboe

MUS 6642 - Graduate Applied Study: Clarinet

MUS 6643 - Graduate Applied Study: Bassoon

MUS 6644 - Graduate Applied Study: Saxophone

MUS 6650 - Graduate Applied Study: Trumpet

MUS 6651 - Graduate Applied Study: French Horn

MUS 6652 - Graduate Applied Study: Trombone

MUS 6653 - Graduate Applied Study: Baritone

MUS 6654 - Graduate Applied Study: Tuba

MUS 6660 - Graduate Applied Study: Percussion

MUS 6670 - Graduate Applied Study: Composition

MUS 6680 - Graduate Applied Study: Conducting

MUS 6685 - Graduate Applied Study: Interactive and Media Composition

MUS 6690 - Graduate Applied Study: Jazz Composition

MUS 6691 - Graduate Applied Study: Jazz Piano and Keyboard

MUS 6692 - Graduate Applied Study: Jazz Guitar

MUS 6693 - Graduate Applied Study: Jazz Bass

MUS 6694 - Graduate Applied Study: Jazz Drums and Percussion

MUS 6695 - Graduate Applied Study: Jazz Saxophone

MUS 6696 - Graduate Applied Study: Jazz Trumpet

MUS 6697 - Graduate Applied Study: Jazz Trombone

Music: Courses for Non-Music Majors

MUS 1004 - Introduction to World Music

MUS 1006 - History of Rock and Roll

MUS 1007 - History of Jazz

MUS 1008 - Music Theory for Non-Music Majors I

MUS 1014 - Introduction to World Music History

MUS 1104 - Global Hip-Hop

MUS 1106 - Blues, R&B and Soul

MUS 2269 - Arts and Media of the Golden State

MUS 3002 - What to Listen for in Music

MUS 3014 - Introduction to World Music and Culture

MUS 3120 - Art Song Literature

MUS 3898 - Cooperative Education

MUS 3999 - Issues in Music

Music: Education

MUS 2331 - Basic Orchestral Instruments: Violin and Viola

MUS 2332 - Basic Orchestral Instruments: Cello and Bass

MUS 2341 - Basic Orchestral Instruments: Clarinet

MUS 2342 - Basic Orchestral Instruments: Double Reeds

MUS 2343 - Basic Orchestral Instruments: Flute and Saxophone

MUS 2355 - Basic Orchestral Instruments: Basic Brass

MUS 2361 - Basic Orchestral Instruments: Percussion

MUS 2410 - Foundations of Music Education

MUS 3095 - Music Technology for Educators

MUS 3370 - Basic Conducting

MUS 3380 - Choral Conducting

MUS 3390 - Instrumental Conducting

MUS 4435 - Seminar in Public School Instrumental Teaching Techniques

MUS 4440 - Seminar in Public School Choral Teaching Techniques

MUS 4445 - Seminar in Elementary Classroom Music Teaching Techniques

Music: Graduate

MUS 6000 - Seminar in Bibliography and Research Methods

MUS 6085 - Interactivity with Sound & Music I

MUS 6445 - Teaching Music in Higher Education

MUS 6899 - Project

MUS 6900 - Independent Study

MUS 6910 - University Thesis

MUS 6999 - Issues in Music

Music: History and Literature

MUS 1155 - Music Through the Ages

MUS 3155 - Music Literature and Analysis I

MUS 3156 - Music Literature and Analysis II

MUS 3157 - Music Literature and Analysis III

MUS 3297 - Orchestral Repertoire I

MUS 3298 - Orchestral Repertoire II

MUS 3299 - Orchestral Repertoire III

MUS 4145 - History of Jazz

Music: History and Literature: Graduate

MUS 6100 - Seminar in History of Western Music

MUS 6105 - History of Music, Medieval to Renaissance

MUS 6115 - Music in the Baroque Period

MUS 6125 - Music of the Classical Period

MUS 6135 - Music of the Romantic Period

MUS 6155 - Music and Culture of Asia

MUS 6180 - Contemporary Music

Music: Performance Activities

MUS 3501 - Large Ensembles: University Chorus

MUS 3502 - Large Ensembles: University Orchestra

MUS 3504 - Large Ensembles: East Bay Singers

MUS 3510 - Large Ensembles: East Bay Jazz Workshop

MUS 3511 - Large Ensembles: East Bay Wind Symphony

MUS 3515 - Large Ensembles: Singing Society

MUS 3531 - Chamber Ensembles: Chamber Winds

MUS 3532 - Chamber Ensembles: Brass

MUS 3533 - Chamber Ensembles: Trumpet

MUS 3535 - Chamber Ensembles: Percussion

MUS 3536 - Chamber Ensembles: African Drumming

MUS 3541 - Chamber Ensembles: String

MUS 3542 - Chamber Ensembles: Guitar

MUS 3543 - Chamber Ensembles: Piano

MUS 3550 - Chamber Ensembles: Jazz Improvisation

MUS 3551 - Chamber Ensembles: Jazz Standards

MUS 3552 - Chamber Ensembles: Contemporary Jazz

MUS 3553 - Chamber Ensembles: Blue Note Jazz

MUS 3554 - Chamber Ensembles: Latin Jazz

MUS 3555 - Chamber Ensembles: Jazz Composers

MUS 3556 - Chamber Ensembles: Electric Jazz

MUS 3557 - Chamber Ensembles: Avant-garde Jazz

MUS 3558 - Chamber Ensembles: Rhythm Section

MUS 3559 - Chamber Ensembles: Sight-reading

MUS 3560 - Chamber Ensembles: Vocal Repertory

MUS 3561 - Chamber Ensembles: Chamber Singers

MUS 3562 - Chamber Ensembles: Jazz Singers

MUS 3570 - Chamber Ensembles: Orchestre dB New Music

Music: Theory

MUS 1027 - Sightsinging I

MUS 1028 - Sightsinging II

MUS 1029 - Sightsinging III

MUS 1031 - Music Theory I

MUS 1032 - Music Theory II

MUS 1033 - Music Theory III

MUS 1085 - Introduction to Audio Production

MUS 2027 - Sightsinging IV

MUS 2028 - Sightsinging V

MUS 2029 - Sightsinging VI

MUS 2031 - Music Theory IV

MUS 2032 - Music Theory V

MUS 2033 - Music Theory VI

MUS 3034 - Analysis of Contemporary Music

MUS 3037 - Improvisation Techniques I

MUS 3038 - Improvisation Techniques II

MUS 3040 - Jazz Theory & Composition

MUS 3051 - Form and Analysis

MUS 3061 - Counterpoint I, II

MUS 3062 - Counterpoint I, II

MUS 3086 - Audio: Sequencing

MUS 3091 - Music Notation Software

MUS 4054 - Instrumentation

MUS 4074 - Orchestration I

MUS 4075 - Orchestration II

MUS 4077 - Jazz Arranging for Large Ensemble

Music: Theory: Graduate

MUS 6015 - Analysis of Musical Styles I

MUS 6016 - Analysis of Musical Styles II

Nursing

NURS 2002 - Success in Nursing

NURS 2005 - Clinical Pathophysiology

NURS 2010 - Principles of Nutrition and Medical Nutrition Therapy

NURS 2015 - Pharmacology

NURS 2020 - Introduction to Contemporary Nursing

NURS 2021 - Nursing Support of Community-Based Clients

NURS 2022 - Level I Nursing Skills I

NURS 2030 - Nursing Care of Adults I

NURS 2031 - Care of Adults I Practicum

NURS 2032 - Basic Physical Assessment

NURS 2040 - Nursing Care of Adults II

NURS 2041 - Care of Adults II Practicum

NURS 2042 - Level I Nursing Skills II

NURS 3001 - Level II Nursing Skills I

NURS 3002 - Level II Nursing Skills II

NURS 3003 - Level II Nursing Skills III

NURS 3200 - Current Issues in Professional Nursing

NURS 3201 - Patients and Families with Complex Needs

NURS 3202 - Nursing Leadership

NURS 3401 - Legal Responsibilities of Health Care Providers

NURS 3402 - Nursing Care of Adults III

NURS 3403 - Nursing Care of Adults III Practice

NURS 3404 - Care of Childbearing Families

NURS 3405 - Childbearing Family Practice

NURS 3406 - Care of Clients with Psychiatric/Mental Health Needs

NURS 3407 - Psychiatric/Mental Health Nursing Practicum

NURS 3408 - Nursing Care of Childrearing Families

NURS 3409 - Childrearing Family Practice

NURS 3410 - Nursing Care of Adults IV

NURS 3411 - Nursing Care of Adults IV Practice

NURS 3412 - Nursing Care of Elder Adults

NURS 3413 - Care of Elder Adults Practice

NURS 3502 - Continuum of Care

NURS 3503 - Advanced Physical Assessment

NURS 3505 - Advanced Principles I

NURS 3507 - Advanced Principles II

NURS 3509 - Advanced Principles III

NURS 3898 - Cooperative Education

NURS 3999 - Issues in Nursing

NURS 4203 - Research Utilization

NURS 4206 - Nursing Care of the Adult with Critical Illness

NURS 4207 - Principles of Community Health Nursing

NURS 4208 - Practicum of Community Health Nursing

NURS 4301 - Preceptorship Seminar

NURS 4302 - Preceptorship Practicum

NURS 4305 - Preceptorship Practicum for the RN-BSN Student

NURS 4900 - Independent Study

Philosophy

PHIL 1000 - Workshop in Clear Thinking

PHIL 1001 - Introduction to Logic

PHIL 1005 - Viewing Diversity

PHIL 1102 - Issues in Environmental Ethics

PHIL 1103 - Science, Ethics, and Technology

PHIL 1104 - The Philosophy of Environmental Science and Policy

PHIL 1201 - Introduction to Ancient Philosophy

PHIL 1302 - Philosophy of Self and Society

PHIL 1303 - Introduction to the Philosophy of Art

PHIL 1401 - Religions of the World

PHIL 2001 - Introduction to Philosophy

PHIL 2002 - Introduction to Ethics

PHIL 2003 - Introduction to Judaism, Christianity, and Islam

PHIL 2040 - Early Modern World Philosophies

PHIL 2605 - Introduction to Asian Religion

PHIL 3002 - Modern Logic

PHIL 3010 - Critical Legal Reasoning

PHIL 3100 - Ethics

PHIL 3151 - Environmental Ethics

PHIL 3152 - Biomedical Ethics

PHIL 3153 - Biology and Ethics

PHIL 3161 - Philosophy and Sex

PHIL 3201 - Aesthetics

PHIL 3216 - Philosophy and Science Fiction

PHIL 3230 - Art and Philosophy of the East

PHIL 3301 - Theory of Knowledge

PHIL 3305 - Fundamental Questions: Self, Nature, and God

PHIL 3311 - Metaphysics

PHIL 3321 - Philosophy of the Human Sciences

PHIL 3322 - Philosophy of Language

PHIL 3332 - Philosophy of Science

PHIL 3335 - Science, Technology and Values

PHIL 3341 - Philosophy of Cognition and Artificial Intelligence

PHIL 3344 - Science and Religion

PHIL 3400 - Philosophy of Religion

PHIL 3401 - Contemporary Religious Thinkers

PHIL 3403 - Religions of the East

PHIL 3404 - Mysticism

PHIL 3410 - Comparative Themes in Eastern and Western Philosophy

PHIL 3411 - Judaism

PHIL 3417 - Islam

PHIL 3421 - Atheism, Agnosticism, and Theism

PHIL 3430 - The Bible in Film

PHIL 3431 - Cults, New Religious Movements

PHIL 3432 - Religion, Monsters, and Horror

PHIL 3433 - Views of the Afterlife

PHIL 3502 - Social and Political Philosophy

PHIL 3503 - Philosophy of Law

PHIL 3510 - Human Rights and Social Justice: Cultural Groups and Women in the U.S.

PHIL 3511 - Philosophy of Human Rights and Global Justice

PHIL 3515 - Race and Social Justice

PHIL 3543 - Evil

PHIL 3560 - Business and Professional Ethics

PHIL 3601 - Ancient and Medieval Philosophy

PHIL 3602 - Modern Philosophy

PHIL 3603 - Thinkers of the Enlightenment

PHIL 3604 - Roots of Contemporary Philosophy

PHIL 3605 - Studies in Contemporary Philosophy

PHIL 3701 - Philosophy of Education

PHIL 3720 - Feminist Philosophy

PHIL 3721 - African-American Philosophical Perspectives

PHIL 3925 - Contemporary Ethical Issues

PHIL 3999 - Issues in Philosophy

PHIL 4606 - Seminar in Philosophy

PHIL 4900 - Independent Study

Physics

PHYS 1001 - General Physics: Newtonian Mechanics and Oscillations

PHYS 1002 - General Physics: Thermodynamics and Optics

PHYS 1003 - General Physics: Electromagnetism

PHYS 1021 - General Physics Supplemental Instruction

PHYS 1022 - General Physics Supplemental Instruction

PHYS 1023 - General Physics Supplemental Instruction

PHYS 1200 - Behind the Music

PHYS 1410 - Physics for Future Leaders

PHYS 1500 - How Things Work

PHYS 1700 - Elementary Physics

PHYS 1780 - Elementary Physics Laboratory

PHYS 1800 - Astronomy

PHYS 1810 - Astronomy of Ancient Cultures

PHYS 1880 - Astronomy Laboratory

PHYS 2004 - General Physics

PHYS 2005 - The Science of Energy

PHYS 2701 - Introductory Physics: Force, Mass and Motion

PHYS 2702 - Introductory Physics: Heat, Sound, Electricity and Magnetism

PHYS 2703 - Introductory Physics: Light and Modern Physics

PHYS 2711 - Introductory Physics Supplemental Instruction

PHYS 2712 - Introductory Physics Supplemental Instruction

PHYS 2713 - Introductory Physics Supplemental Instruction

PHYS 3011 - Foundational Physics

PHYS 3012 - Foundational Physics Laboratory

PHYS 3080 - Physics Hands-on Laboratory

PHYS 3101 - Analytic Mechanics I

PHYS 3102 - Analytic Mechanics II

PHYS 3151 - Thermal and Statistical Physics I

PHYS 3152 - Thermal and Statistical Physics II

PHYS 3180 - Computational Physics

PHYS 3280 - Electronics

PHYS 3281 - Experimental Physics

PHYS 3283 - Advanced Laboratory

PHYS 3301 - Quantum Mechanics I

PHYS 3302 - Quantum Mechanics II

PHYS 3303 - Quantum Mechanics III

PHYS 3700 - The Big Bang and Other Cosmologies

PHYS 3710 - Solar System Astronomy

PHYS 3720 - Stars and Galaxies

PHYS 3750 - Biophysics Tools in the History of Medical Research

PHYS 3875 - Mathematical Physics

PHYS 3898 - Cooperative Education

PHYS 3999 - Issues in Physics

PHYS 4001 - Electromagnetism I

PHYS 4002 - Electromagnetism II

PHYS 4003 - Electromagnetism III

PHYS 4250 - Selected Topics

PHYS 4600 - Solid State

PHYS 4700 - Modern Optics

PHYS 4850 - Undergraduate Research

PHYS 4900 - Independent Study

PHYS 4950 - Physics Capstone

Political Science

POSC 1000 - Introduction to Political Science

POSC 1171 - Environmental Politics

POSC 1201 - American Political Institutions

POSC 1202 - Public Policy/California Politics

POSC 1500 - Conflict in World Politics

POSC 2002 - The Golden State? Modern Politics, Economics and Culture in California

POSC 3030 - The Study of Political Science

POSC 3898 - Cooperative Education

POSC 3999 - Issues in Political Science

POSC 4900 - Independent Study

POSC 4910 - Political Science Seminar

Political Science: American Government and Politics

POSC 3111 - The American Presidency

POSC 3113 - Political Internship

POSC 3115 - United States Congress

POSC 3120 - State and Local Politics and Government

POSC 3130 - Urban Politics

POSC 3150 - Politics of California

POSC 3300 - Voting and Public Opinion

POSC 3310 - Political Parties and Campaigning

POSC 3330 - Interest Groups, Lobbying, and Political Reform

POSC 3333 - Ethnic and Minority Politics

POSC 3335 - African American Politics

POSC 3336 - Asian American Politics

POSC 3340 - Women and Politics

POSC 3360 - Culture and Politics in the United States

POSC 3375 - Practical Politics

Political Science: Comparative Government and Politics

POSC 3201 - Political Systems of Western Europe

POSC 3204 - Political Systems of Asia

POSC 3230 - Government and Politics in the Middle East

POSC 3260 - Government and Politics of Africa South of the Sahara

POSC 3280 - Political Systems of Latin America

POSC 3290 - Comparative Law

Political Science: International Relations

POSC 3500 - World Problems and Global Response

POSC 3505 - American Foreign Policy

POSC 3508 - Politics of Filipino-American Relations

POSC 3510 - International Security in the 21st Century

POSC 3520 - International Relations

POSC 3521 - Politics of the Global Economy

POSC 3550 - The United Nations and World Community

Political Science: Political Theory

POSC 3703 - American Political Thought

POSC 3704 - Marxism in Theory and Practice

POSC 3711 - Greek, Roman and Medieval Political Thought

POSC 3713 - Contemporary Political Thought

POSC 3717 - Theories of Empire

Political Science: Public Law

POSC 3410 - Law and Society

POSC 3417 - Survey of American Law

POSC 3441 - American Constitutional Law: Government

POSC 3442 - American Constitutional Law: Rights

POSC 3460 - Environmental Law

POSC 3470 - International Law

POSC 3503 - Philosophy of Law

Political Science: Public Policy and Administration

POSC 3419 - Labor Policy and Law

POSC 3522 - The Politics and Law of New Genetic Technologies

POSC 3800 - Public Policy Analysis

POSC 4171 - Public Policy and the Environment

POSC 4445 - Bureaucratic Politics and Administrative Law

Psychology

PSYC 1000 - General Psychology

PSYC 1001 - General Psychology and Society

PSYC 1002 - General Psychology of Music and Mind

PSYC 1005 - General Psychology for Healthier Living

PSYC 1100 - Critical Thinking in Psychology

PSYC 2020 - Methods of Investigation in Psychology

PSYC 3100 - Experimental Psychology

PSYC 3190 - Human Factors Engineering

PSYC 3200 - Psychological Tests

PSYC 3210 - Principles of Survey and Test Construction

PSYC 3220 - Psychology of Individual Differences

PSYC 3230 - Applied Measurement

PSYC 3240 - Decision Theory

PSYC 3250 - Behavior Modification

PSYC 3400 - Ergonomics and Human Factors

PSYC 3410 - Psychology of Women

PSYC 3420 - Stress and Coping

PSYC 3500 - Social Psychology

PSYC 3520 - Interpersonal Processes

PSYC 3540 - Groups and Organizations

PSYC 3550 - Social Influence and Change

PSYC 3560 - Psychology of Negotiation and Conflict Resolution

PSYC 3600 - The Impact of Culture on Social Psychology

PSYC 4200 - Conditioning and Learning

PSYC 4210 - Theories of Learning

PSYC 4220 - Cognitive Processes

PSYC 4300 - Motivation

PSYC 4310 - Comparative Psychology

PSYC 4320 - Physiological Psychology

PSYC 4345 - Sensation and Perception

PSYC 4350 - Heredity and Behavior

PSYC 4360 - Psychopharmacology

PSYC 4370 - Cognitive Neuroscience

PSYC 4390 - History and Systems of Psychology

PSYC 4410 - Abnormal Psychology

PSYC 4420 - Developmental Psychology

PSYC 4440 - Child Psychopathology

PSYC 4500 - Industrial Psychology

PSYC 4610 - Psychology of Personality

PSYC 4620 - Theories of Personality

PSYC 4630 - Introduction to Psychotherapy and Clinical Methods

PSYC 4660 - The Psychology of the Healthy Personality

PSYC 4740 - Psycholinguistics

PSYC 4800 - Human Learning and Cognition Laboratory

PSYC 4801 - Learning and Motivation Laboratory

PSYC 4802 - Sensation and Perception Laboratory

PSYC 4803 - Physiological Psychology Laboratory

PSYC 4804 - Social and Personality Laboratory

PSYC 4805 - Comparative Psychology Laboratory

PSYC 4806 - Developmental Psychology Laboratory

PSYC 4807 - Clinical Psychology Laboratory

PSYC 4808 - Industrial Psychology Laboratory

PSYC 4900 - Independent Study

Public Administration

PUAD 3999 - Issues in Public Administration

PUAD 4445 - Bureaucratic Politics and Administrative Law

PUAD 4800 - Public Administration and Society

PUAD 4830 - Organization Theory and Human Behavior

PUAD 4840 - Fundamentals of Information Management in the Public Sector

PUAD 4900 - Independent Study

Public Administration: Graduate

PUAD 5000 - Philosophy of Public Administration

PUAD 5900 - Independent Study

PUAD 6762 - Group Procedures and Facilitation

PUAD 6765 - Organizational Diagnosis and Assessment

PUAD 6766 - Organizational Intervention and Engagement

PUAD 6801 - Public Policy Formulation

PUAD 6802 - Seminar in Public Policy Implementation

PUAD 6809 - Seminar in Public Program Evaluation

PUAD 6811 - Human Organizations and Social Realities

PUAD 6812 - Changing Human Organizations

PUAD 6815 - Ethics and Administrative Responsibility

PUAD 6830 - Advanced Information Management in Public Organizations

PUAD 6831 - Research Methods in Public Administration I

PUAD 6832 - Research Methods in Public Administration II

PUAD 6840 - Seminar in Public Finance Administration

PUAD 6842 - Governmental Budgeting

PUAD 6850 - Human Resource Management in the Public Sector

PUAD 6851 - Work and Organizations of the Future

PUAD 6854 - Seminar in Public Labor Relations

PUAD 6864 - Managing Public Organizations

PUAD 6869 - Topics in Public Management

PUAD 6878 - Transforming Health Care

PUAD 6893 - Internship in Public Administration

PUAD 6897 - Community Health Administration Practicum

PUAD 6898 - Cooperative Education

PUAD 6900 - Independent Study

PUAD 6901 - Graduate Synthesis

PUAD 6909 - Departmental Thesis

PUAD 6910 - University Thesis

PUAD 6999 - Issues in Public Administration

Recreation

REC 1000 - Introduction to Recreation

REC 2050 - Computers in Hospitality, Recreation and Tourism

REC 2100 - Leadership Principles in Action

REC 2200 - Programming in Leisure Services

REC 2400 - Leisure, Self, and Society

REC 2500 - Service Learning in Leadership, Hospitality and Leisure 1

REC 3000 - Philosophy of Leisure

REC 3010 - Service Learning in Hospitality, Recreation and Tourism 2

REC 3200 - Wellness Through Leisure

REC 3202 - Women and Leisure

REC 3300 - Leadership in Hospitality, Recreation and Tourism

REC 3305 - Outdoor Living Skills

REC 3401 - Leadership of Small Groups

REC 3510 - Management and Supervision in Hospitality, Recreation and Tourism

REC 3701 - Evaluation and Research in Hospitality, Recreation and Tourism

REC 3800 - Introduction to Recreation Therapy

REC 3999 - Issues in Hospitality and Leisure Services

REC 4000 - Administration and Budgeting in Recreation

REC 4011 - Youth Development through Leisure

REC 4050 - Social Justice in Hospitality, Recreation and Tourism

REC 4100 - Professional Issues in Hospitality, Recreation and Tourism

REC 4300 - Facilities Management and Administration in Leisure

REC 4501 - Special Events Management 1

REC 4600 - Recreation Therapy Documentation and Assessment

REC 4601 - Recreation Therapy Treatment and Program Planning

REC 4602 - Recreation Therapy Processes

REC 4603 - Recreation Therapy Programming

REC 4604 - Recreation Therapy: Advancing the Profession

REC 4605 - Recreation Therapy: Treatment and Diagnostic Groups

REC 4702 - Facilitating Adventure-Based Outdoor Leadership Programs

REC 4705 - Outdoor Adventure Recreation

REC 4896 - Recreation Management Internship Placement

REC 4897 - Recreation Therapy Internship Placement

REC 4900 - Independent Study

REC 4910 - Recreation Management Internship and Senior Project

REC 4911 - Recreation Therapy Internship and Senior Project

REC 4913 - Senior Special Project

Recreation and Tourism: Graduate

REC 6000 - Research Methods in Leisure Studies

REC 6100 - Philosophical Foundations and Theories of Leisure

REC 6200 - Strategies in Staff Supervision

REC 6300 - Organizational Development in Leisure

REC 6400 - Current Management Topics in Leisure

REC 6500 - Critical Analysis of Leisure Research

REC 6601 - Planning, Development, and Management of Sustainable Tourism

REC 6700 - Advanced Social Justice and Professional Ethics

REC 6800 - Strategic Leadership in Leisure

REC 6901 - Graduate Synthesis

REC 6909 - Departmental Thesis

REC 6999 - Issues in Recreation and Tourism

Social Work

SW 4999 - Social Work as a Lifelong Career

Social Work: Graduate

SW 5900 - Independent Study

SW 6000 - Human Behavior and Social Environment I

SW 6001 - Human Behavior and Social Environment II

SW 6010 - Race, Gender and Inequality in Social Work Practice

SW 6011 - Generalist Practice I

SW 6012 - Generalist Practice II

SW 6013 - Generalist Practice III

SW 6020 - Field Instruction I

SW 6021 - Field Instruction II

SW 6022 - Field Instruction III

SW 6030 - Social Welfare Policy : History and Philosophy

SW 6032 - Social Welfare Policy: Research

SW 6400 - Title IV-E Seminar

SW 6405 - Community Mental Health Seminar

SW 6500 - Advanced Micro Practice: Children, Youth, and Families

SW 6505 - Advanced Micro Practice: Community Mental Health

SW 6510 - Advanced Mezzo Practice: Children, Youth, and Families

SW 6515 - Advanced Mezzo Practice: Community Mental Health

SW 6520 - Advanced Policy Practice: Children, Youth, and Families

SW 6525 - Advanced Policy Practice: Community Mental Health

SW 6530 - Field Instruction IV

SW 6531 - Field Instruction V

SW 6532 - Field Instruction VI

SW 6550 - Social Work Psychosocial Rehabilitation

SW 6552 - Legal Issues in Social Work Practice

SW 6553 - Assessment and Treatment of Substance Abuse

SW 6555 - School Social Work

SW 6556 - Human Sexuality and Social Work

SW 6560 - Family Violence Across the Lifespan

SW 6561 - Advanced Psychosocial Assessment and Diagnosis

SW 6879 - Clinical/Casework Intervention with Military Personnel and their Families

SW 6900 - Independent Study

SW 6909 - Departmental Thesis

SW 6910 - University Thesis

SW 6932 - Qualitative and Quantitative Analysis

SW 6935 - Program Evaluation

SW 6959 - Integrative Seminar

SW 6962 - Writing for Social Work

SW 6963 - Disabilities and Social Work

SW 6964 - Practice with Lesbian, Bi-Sexual, Gay, Transgendered and Questioning Populations

SW 6999 - Issues in Social Work

Sociology

SOC 1000 - Introduction to Sociology

SOC 1002 - Introduction to Sociology of Individual and Society

SOC 3000 - Introduction to Sociological Research

SOC 3100 - Seminar in Human Ecology

SOC 3200 - Social Demography

SOC 3230 - Sociology of Food

SOC 3310 - Sociological Theory

SOC 3410 - Sociology of the Family

SOC 3411 - Sociology of Gender

SOC 3412 - Marriage and Sex

SOC 3413 - Sociology of Parenting

SOC 3415 - Sociology of the African American Family

SOC 3418 - Mediation

SOC 3419 - Death and Dying

SOC 3420 - Social Inequality

SOC 3424 - Sociology of Sport

SOC 3425 - Prejudice and Discrimination

SOC 3431 - Global Society

SOC 3480 - Violence and Conflict

SOC 3500 - Social Psychology

SOC 3507 - Filipino American Communities

SOC 3510 - Sociology of Identity

SOC 3520 - Sociology of Race and Ethnic Relations

SOC 3525 - The African American Male

SOC 3530 - Continuity and Change in Brazilian Society - Study Abroad

SOC 3550 - Filipino Labor/Immigration

SOC 3555 - Asian American Family Patterns

SOC 3610 - Sociology of Religion

SOC 3612 - Sociology of Immigration

SOC 3614 - Community Engagement with Immigrant High School Students

SOC 3620 - Sociology of Education

SOC 3700 - Introduction to Social Services

SOC 3710 - Social Policy

SOC 3712 - Sociology of Travel and Tourism

SOC 3720 - Human Behavior in the Social Environment

SOC 3730 - Juvenile Delinquency

SOC 3745 - Social Deviance

SOC 3750 - Alcohol and Drug Abuse

SOC 3880 - Work and Professions

SOC 3890 - Sociology of Organizations

SOC 3898 - Cooperative Education

SOC 3999 - Issues in Sociology and Social Services

SOC 4111 - Methods of Sociological Research I

SOC 4112 - Methods of Sociological Research II

SOC 4200 - Sociology of Sexualities

SOC 4400 - Sociology of Culture

SOC 4422 - Environmental Sociology

SOC 4450 - Urban Sociology

SOC 4452 - Economy & Society

SOC 4716 - Social Work Theories and Methods

SOC 4718 - Field Practicum

SOC 4719 - Field Practicum Seminar

SOC 4720 - Medical Sociology

SOC 4730 - Police and Society

SOC 4750 - Child Welfare

SOC 4790 - Social Control and Society

SOC 4800 - Topics Seminar

SOC 4900 - Independent Study

Sociology: Graduate

SOC 6111 - Advanced Sociological Research Methods I

SOC 6112 - Advanced Sociological Research Methods II

SOC 6311 - Seminar in Sociological Theory I

SOC 6312 - Seminar in Sociological Theory II

SOC 6800 - Topics Seminar

SOC 6898 - Cooperative Education

SOC 6900 - Independent Study

SOC 6908 - Thesis Development

SOC 6909 - Departmental Thesis

SOC 6910 - University Thesis

SOC 6999 - Issues in Sociology

Speech Pathology and Audiology

SPPA 2850 - Introduction to Communication Disorders

SPPA 3852 - Speech, Language and Communication Development Across the Lifespan

SPPA 3854 - Anatomy and Physiology of Speech

SPPA 3855 - Phonetics

SPPA 3856 - Observation of Clinical Procedures in Communicative Disorders

SPPA 3859 - Theory and Practice of Audiology I

SPPA 3860 - Theory and Practice of Audiology II

SPPA 3898 - Cooperative Education

SPPA 3999 - Issues in Speech Pathology and Audiology

SPPA 4120 - Aural Rehabilitation for Au.D.

SPPA 4852 - Clinical Methods and Procedures in Communicative Disorders

SPPA 4854 - Diagnosis of Speech and Language Disorders

SPPA 4856 - Practicum in Speech-Language Pathology

SPPA 4859 - Evidence-based Practice in Communicative Sciences and Disorders

SPPA 4861 - Hearing Assessment: Instrumentation and Behavioral

SPPA 4862 - Organic and Low Incidence Speech Disorders

SPPA 4863 - Articulation and Phonological Disorders

SPPA 4865 - Language Disorders in Children

SPPA 4866 - Neurocognitive Communication Disorders

SPPA 4867 - Speech Science

SPPA 4868 - Cultural and Linguistic Diversity

SPPA 4869 - Neuroanatomy and Neurophysiology of the Speech, Language and Hearing Mechanism

SPPA 4900 - Independent Study

Speech-Language Pathology: Graduate

SPPA 6000 - Research Methods in Communicative Sciences and Disorders

SPPA 6010 - Advanced Speech and Hearing Science

SPPA 6020 - Vocal Pathology and Rehabilitation

SPPA 6030 - Clinical Organization and Management

SPPA 6040 - Advanced Seminar in Speech, Language and Communication Disorders

SPPA 6050 - Neurogenic Motor Speech Disorders: Adults and Children

SPPA 6052 - Clinical Methods and Procedures in Communicative Disorders

SPPA 6055 - Aphasia and Related Neurogenic Language Disorders

SPPA 6056 - Practicum in Speech-Language Pathology: Treatment

SPPA 6057 - Practicum in Speech-Language Pathology: Assessment

SPPA 6060 - Advanced Study of Language Disorders in Children

SPPA 6064 - Fluency Disorders

SPPA 6066 - Clinical Internship in Speech-Language Pathology

SPPA 6070 - Augmentative/Alternative Communication-Assistive Technology for Speech-Language Pathologists

SPPA 6080 - Counseling Individuals with Speech, Language and Hearing Disorders

SPPA 6156 - Practicum in Audiologic Assessment

SPPA 6160 - Audiological Rehabilitation

SPPA 6220 - Dysphagia in Adults and Children

SPPA 6223 - Early Language Assessment and Intervention

SPPA 6224 - Issues in Ethics

SPPA 6228 - School-based Issues in Speech-Language Pathology

SPPA 6229 - Medical Speech-Language Pathology

SPPA 6854 - Diagnosis of Speech and Language Disorders

SPPA 6898 - Cooperative Education

SPPA 6900 - Independent Study

SPPA 6910 - University Thesis

SPPA 6999 - Issues in Speech Pathology and Audiology

Statistics

STAT 1000 - Elements of Probability and Statistics

STAT 2010 - Elements of Statistics for Business and Economics

STAT 3010 - Statistical Methods in the Social Sciences

STAT 3031 - Statistical Methods in Biology

STAT 3050 - Statistics: from Data to Decisions

STAT 3088 - Gambling and Games of Chance

STAT 3401 - Introduction to Probability Theory I

STAT 3402 - Introduction to Probability Theory II

STAT 3502 - Statistical Inference I

STAT 3503 - Statistical Inference II

STAT 3510 - Sampling Procedures for Surveys

STAT 3601 - Statistics and Probability for Science and Engineering I

STAT 3602 - Statistics and Probability for Science and Engineering II

STAT 3898 - Cooperative Education

STAT 3900 - Data Analysis Using Statistical Packages

STAT 3910 - Statistical Software Usage

STAT 3999 - Issues in Statistics

STAT 4000 - Analysis of Variance in the Behavioral Sciences

STAT 4013 - Statistics, Data Analysis, and Probability

STAT 4401 - Introduction to Stochastic Processes

STAT 4412 - Probability Theory

STAT 4515 - Applied Multivariate Analysis

STAT 4601 - Regression

STAT 4610 - Introduction to Nonparametric Statistical Methods

STAT 4860 - Undergraduate Seminar

STAT 4861 - Undergraduate Seminar

STAT 4862 - Undergraduate Seminar

STAT 4863 - Undergraduate Seminar

STAT 4864 - Undergraduate Seminar

STAT 4865 - Undergraduate Seminar

STAT 4866 - Undergraduate Seminar

STAT 4867 - Undergraduate Seminar

STAT 4868 - Undergraduate Seminar

STAT 4869 - Undergraduate Seminar

STAT 4900 - Independent Study

STAT 4910 - Advanced Statistical Package Usage

STAT 4950 - Advanced Statistical Packages for Data Analysis

STAT 4960 - R Programming

Statistics: Graduate

STAT 5300 - Quality Engineering

STAT 5601 - Introductory Statistics and Probability for Science and Engineering

STAT 6010 - Applied Analysis of Variance

STAT 6011 - Statistical Modeling for Management and Economics

STAT 6020 - Statistical Methods in Clinical Trials

STAT 6059 - Advanced Statistical Methods Using Computing Packages

STAT 6204 - Probability Theory

STAT 6205 - Statistical Theory

STAT 6250 - SAS Programming

STAT 6260 - R Programing

STAT 6300 - Applied Quality Assurance

STAT 6304 - Advanced Statistical Inference

STAT 6305 - Analysis of Variance Models

STAT 6310 - Advanced Stochastic Processes and Simulation

STAT 6401 - Advanced Probability I

STAT 6501 - Mathematical Statistics I

STAT 6502 - Mathematical Statistics II

STAT 6509 - Theory and Application of Regression

STAT 6510 - Analysis of Variance

STAT 6511 - Advanced Applied Econometrics

STAT 6515 - Advanced Multivariate Analysis

STAT 6550 - Bayesian Statistics

STAT 6555 - Statistical Time Series Analysis

STAT 6601 - Advanced Statistical Computing

STAT 6610 - Data Visualization

STAT 6620 - Statistical Learning with R

STAT 6651 - Analysis of Categorical Data in Biostatistics

STAT 6801 - Statistical Consulting

STAT 6843 - Selected Topics in Biostatistics

STAT 6844 - Selected Topics in Biostatistics

STAT 6845 - Selected Topics in Biostatistics

STAT 6846 - Selected Topics in Biostatistics

STAT 6847 - Selected Topics in Biostatistics

STAT 6848 - Selected Topics in Biostatistics

STAT 6849 - Selected Topics in Biostatistics

STAT 6851 - Selected Topics in Actuarial and Decision Science

STAT 6852 - Selected Topics in Actuarial and Decision Science

STAT 6853 - Selected Topics in Actuarial and Decision Science

STAT 6854 - Selected Topics in Actuarial and Decision Science

STAT 6855 - Selected Topics in Actuarial and Decision Science

STAT 6856 - Selected Topics in Actuarial and Decision Science

STAT 6857 - Selected Topics in Actuarial and Decision Science

STAT 6858 - Selected Topics in Actuarial and Decision Science

STAT 6859 - Selected Topics in Actuarial and Decision Science

STAT 6860 - Selected Topics in Graduate Probability and Statistics

STAT 6861 - Selected Topics in Graduate Probability and Statistics

STAT 6862 - Selected Topics in Graduate Probability and Statistics

STAT 6863 - Selected Topics in Graduate Probability and Statistics

STAT 6864 - Selected Topics in Graduate Probability and Statistics

STAT 6865 - Mathematical Modeling

STAT 6870 - Seminar in Probability and Statistics

STAT 6871 - Seminar in Probability and Statistics

STAT 6872 - Seminar in Probability and Statistics

STAT 6873 - Seminar in Probability and Statistics

STAT 6874 - Seminar in Probability and Statistics

STAT 6875 - Seminar in Probability and Statistics

STAT 6876 - Seminar in Probability and Statistics

STAT 6877 - Seminar in Probability and Statistics

STAT 6878 - Seminar in Probability and Statistics

STAT 6879 - Seminar in Probability and Statistics

STAT 6895 - Practicum in Statistics

STAT 6898 - Cooperative Education

STAT 6900 - Independent Study

STAT 6950 - Graduate Statistics Capstone

STAT 6999 - Issues in Statistics

Subject Area Course List (SACL) - Acting

THEA 2031 - Stage Voice A

THEA 2032 - Stage Voice B

THEA 2035 - Fundamentals of Acting

THEA 2037 - Acting 20th Century Drama and Diversity

THEA 2055 - Intermediate Acting I

THEA 2061 - Musical Theatre Show Choir A

THEA 2062 - Musical Theatre Show Choir B

THEA 2063 - Musical Theatre Show Choir C

THEA 3052 - Acting for the Camera

THEA 3056 - Intermediate Acting II

THEA 3057 - Intermediate Acting III

THEA 3064 - Audition Techniques and Talent Analysis I

THEA 3065 - Audition Techniques and Talent Analysis II

THEA 4032 - Period Acting Style: Restoration and Moliere

THEA 4038 - Acting Studio I

THEA 4039 - Acting Studio II

Subject Area Course List (SACL) - Dance Fundamental

DANC 2020 - Rhythm and Music for Dance

DANC 2341 - Improvisation in Art and Life

DANC 2342 - Integrating Theatre and Dance

DANC 2343 - Body and Mind Training for Performance

DANC 2344 - Site Specific Performance

Subject Area Course List (SACL) - Dance History

DANC 4201 - Dance in Modern Society

Subject Area Course List (SACL) - Dance Technique

DANC 1131 - Beginning Technique Classes: Beginning Hip Hop Dance I

DANC 1132 - Beginning Technique Classes: Beginning Hip Hop Dance II

DANC 1133 - Beginning Technique Classes: Beginning Hip Hop Dance III

DANC 1141 - Beginning Technique Classes: Beginning Modern Dance I

DANC 1142 - Beginning Technique Classes: Beginning Modern Dance II

DANC 1143 - Beginning Technique Classes: Beginning Modern Dance III

DANC 1171 - Beginning Technique Classes: Beginning Jazz Dance I

DANC 1172 - Beginning Technique Classes: Beginning Jazz Dance II

DANC 1173 - Beginning Technique Classes: Beginning Jazz Dance III

DANC 1191 - Beginning Technique Classes: Beginning Ballet Dance I

DANC 1192 - Beginning Technique Classes: Beginning Ballet Dance II

DANC 1193 - Beginning Technique Classes: Beginning Ballet Dance III

DANC 2131 - Intermediate Technique Classes: Intermediate Hip Hop Dance I

DANC 2132 - Intermediate Technique Classes: Intermediate Hip Hop Dance II

DANC 2133 - Intermediate Technique Classes: Intermediate Hip Hop Dance III

DANC 2141 - Intermediate Technique Classes: Intermediate Modern Dance I

DANC 2171 - Intermediate Technique Classes: Intermediate Jazz Dance I

DANC 2172 - Intermediate Technique Classes: Intermediate Jazz Dance II

DANC 2173 - Intermediate Technique Classes: Intermediate Jazz Dance III

DANC 2191 - Intermediate Technique Classes: Intermediate Ballet Dance I

DANC 2192 - Intermediate Technique Classes: Intermediate Ballet Dance II

DANC 2193 - Intermediate Technique Classes: Intermediate Ballet Dance III

DANC 4141 - Advanced Dance Technique Courses: Advanced Modern Dance I

DANC 4142 - Advanced Dance Technique Courses: Advanced Modern Dance II

DANC 4143 - Advanced Dance Technique Courses: Advanced Modern Dance III

DANC 4171 - Advanced Dance Technique Courses: Advanced Jazz Dance I

DANC 4172 - Advanced Dance Technique Courses: Advanced Jazz Dance II

DANC 4173 - Advanced Dance Technique Courses: Advanced Jazz Dance I

DANC 4191 - Advanced Dance Technique Courses: Advanced/Intermediate Ballet Dance I

DANC 4192 - Advanced Dance Technique Courses: Advanced/Intermediate Ballet Dance II

DANC 4193 - Advanced Dance Technique Courses: Advanced/Intermediate Ballet Dance III

Subject Area Course List (SACL) - Musical Theatre

DANC 2121 - Musical Theatre Dance B

DANC 2122 - Musical Theatre Dance C

DANC 2123 - Musical Theatre Dance D

DANC 2124 - Musical Theatre Dance E

DANC 2125 - Musical Theatre Dance F

THEA 2044 - Fundamental Musical Theatre Techniques

THEA 2045 - Applied Singing for Musical Theatre A

THEA 2046 - Applied Singing for Musical Theatre B

THEA 2047 - Applied Singing for Musical Theatre C

THEA 3041 - Advanced Applied Singing for Musical Theatre I

THEA 3042 - Advanced Applied Singing for Musical Theatre II

THEA 3043 - Advanced Applied Singing for Musical Theatre III

THEA 3048 - Musical Theatre Technique I

THEA 3049 - Musical Theatre Technique II

THEA 3216 - History of Musical Theatre

THEA 4040 - Musical Theatre Journal Review

THEA 4048 - Advanced Musical Ensemble A

THEA 4049 - Advanced Musical Ensemble B

Subject Area Course List (SACL) - Production & Performance

THEA 1490 - Theatre Production Activity Courses: Costume or Backstage Activity A

THEA 1491 - Theatre Production Activity Courses: Musical Theatre Production A

THEA 1492 - Theatre Production Activity Courses: Stage Crew Activity A

THEA 1493 - Theatre Production Activity Courses: Production Staff Activity A

THEA 1495 - Theatre Production Activity Courses: Studio Production Activity A

THEA 1497 - Theatre Production Activity Courses: Special Workshop or Production A

THEA 1499 - Theatre Production Activity Courses: Production Practicum A

THEA 2430 - Fundamental Backstage Technology: Practical Make-up

THEA 2490 - Theatre Production Activity Courses: Costume or Backstage Activity B

THEA 2491 - Theatre Production Activity Courses: Musical Theatre Production B

THEA 2492 - Theatre Production Activity Courses: Stage Crew Activity B

THEA 2493 - Theatre Production Activity Courses: Production Staff Activity B

THEA 2495 - Theatre Production Activity Courses: Studio Production Activity B

THEA 2497 - Theatre Production Activity Courses: Special Workshop or Production B

THEA 2499 - Theatre Production Activity Courses: Production Practicum B

THEA 3490 - Theatre Production Activity Courses: Costume or Backstage Activity C

THEA 3491 - Theatre Production Activity Courses: Musical Theatre Production C

THEA 3492 - Theatre Production Activity Courses: Stage Crew Activity C

THEA 3493 - Theatre Production Activity Courses: Production Staff Activity C

THEA 3495 - Theatre Production Activity Courses: Studio Production Activity C

THEA 3497 - Theatre Production Activity Courses: Special Workshop or Production C

THEA 3499 - Theatre Production Activity Courses: Production Practicum C

THEA 4490 - Theatre Production Activity Courses: Costume or Backstage Activity D

THEA 4491 - Theatre Production Activity Courses: Musical Theatre Production D

THEA 4492 - Theatre Production Activity Courses: Stage Crew Activity D

THEA 4493 - Theatre Production Activity Courses: Production Staff Activity D

THEA 4495 - Theatre Production Activity Courses: Studio Production Activity D

THEA 4497 - Theatre Production Activity Courses: Special Workshop or Production D

THEA 4499 - Theatre Production Activity Courses: Production Practicum D

Subject Area Course List (SACL) - Technology & Design

THEA 2421 - Fundamental Backstage Technology: Wood Scenery: Walls and Levels

THEA 2422 - Fundamental Backstage Technology: Costume Technique

THEA 2423 - Fundamental Backstage Technology: Lights: Hanging and Focus

THEA 2424 - Fundamental Backstage Technology: Sound: Recording

THEA 2425 - Fundamental Backstage Technology: Stage Effects

THEA 2428 - Fundamental Backstage Technology: Sound: PA

THEA 2450 - Vectorworks CADD for Lights and Scenery

THEA 3422 - History of Costume

THEA 3423 - Non-Western Costume

THEA 3424 - Scene Painting and Graphic Language

THEA 3426 - The Art of the Kimono

THEA 3427 - Fashion History

THEA 3428 - Fashion Design

THEA 4418 - Advanced Makeup and Maskmaking

Teacher Education

TED 3001 - Exploring Education

TED 3005 - Intermediate Field Experience in the Elementary School A

TED 3006 - Intermediate Field Experience in the Elementary School B

TED 3007 - Intermediate Field Experience in the Secondary School A

TED 3008 - Intermediate Field Experience in the Secondary School B

TED 3898 - Cooperative Education

TED 3999 - Issues in Teacher Education

TED 4041 - Advanced Tutoring Methods in Reading, Writing and Learning Skills

TED 4042 - Advanced Tutoring Methods in Mathematics and Science

TED 4070 - Early Childhood Education: Language and Literacy Development

TED 4071 - Early Childhood Education: Integrated Language Arts and Social Studies

TED 4072 - Early Childhood Education: Integrated Math and Science

TED 4073 - Early Childhood Education: Integrated Arts

TED 4074 - Early Childhood Education: Inclusive Practices

TED 4075 - Early Childhood Education: Professional Seminar and Practicum

TED 4320 - Art Skills for Teachers

TED 4325 - Arts Integration for Teachers

TED 4900 - Independent Study

Teacher Education: Graduate

TED 6010 - Seminar in Teaching and Learning Mathematics

TED 6015 - Using Research to Improve Learning

TED 6020 - Research in Education

TED 6021 - Seminar in Diagnosis and Treatment of Learning Difficulties in Mathematics

TED 6040 - Advanced Curriculum and Instruction in Mathematics

TED 6050 - Seminar in Science and Health Education Research

TED 6070 - Graduate Studies in Early Childhood Education: Language and Literacy Development

TED 6071 - Graduate Studies in Early Childhood Education: Integrated Language Arts and Social Studies

TED 6072 - Graduate Studies in Early Childhood Education: Integrated Mathematics and Science

TED 6073 - Graduate Studies in Early Childhood Education: Integrated Arts

TED 6074 - Graduate Studies in Early Childhood Education: Integrated Arts

TED 6075 - Early Childhood Education: Professional Leadership Seminar

TED 6076 - Early Childhood Education: Professional Practicum

TED 6124 - Advanced Study in Multicultural Education

TED 6220 - Focus on Diversity

TED 6230 - Reading/Language Arts: Literacy Research and Methods I

TED 6231 - Reading/Language Arts: Literacy Assessment and Intervention I

TED 6232 - Reading/Language Arts: Literacy Assessment and Intervention II

TED 6246 - Critical Analysis of Children's Literature

TED 6250 - Reading Research and Evaluation

TED 6251 - Reading/Language Arts: Field Experience

TED 6253 - Reading/Language Arts: Literacy Research and Methods II

TED 6300 - Foundations of Curriculum Development

TED 6416 - Development of Environmental Education

TED 6440 - Curriculum in Science and Health Education

TED 6700 - Advanced Educational Psychology

TED 6898 - Cooperative Education

TED 6899 - Project

TED 6900 - Independent Study

TED 6901 - Graduate Synthesis

TED 6902 - Action Research and Writing: APA Style, Human Subjects, Campus Resources

TED 6903 - Action Research and Writing: Research Synthesis and Topic Definition

TED 6904 - Action Research and Writing: Project Design

TED 6905 - Action Research and Writing: Reflection and Professional Development

TED 6909 - Departmental Thesis

TED 6910 - University Thesis

TED 6999 - Issues in Teacher Education

Teacher Education: Post-Baccalaureate

TED 5061 - TPA Subject-Specific Pedagogy Task I Tutorial

TED 5062 - TPA Designing Instruction Task II Tutorial

TED 5063 - TPA Culminating Teaching Experience Task III Tutorial

TED 5064 - TPA Culminating Teaching Experience Task IV Tutorial

TED 5110 - Computer-Based Technology in the Classroom I

TED 5211 - TPA Subject-Specific Pedagogy Task I Assessment

TED 5212 - TPA Designing Instruction Task II Assessment

TED 5213 - TPA Assessing Learning Task III Assessment

TED 5214 - TPA Culminating Teaching Experience Task IV Assessment

TED 5242 - Teaching Multicultural Literature to Children

TED 5301 - Psychological Foundations in Middle and Secondary School Education

TED 5305 - Social/Cultural Context of Education

TED 5306 - Teaching and Learning in the Single Subject Classroom II

TED 5308 - Teaching and Learning in the Single Subject Classroom III

TED 5309 - Teaching and Learning in the Single Subject Classroom IV

TED 5311 - Classroom Environment

TED 5314 - Teaching Special Populations in Regular Classrooms

TED 5318 - Professional Responsibilities

TED 5320 - Content Literacy

TED 5326 - Preparation to Teach English Learners in the Single Subject Classroom

TED 5333 - Teaching Performance Assessment for Early Completion

TED 5347 - Student Teaching A in Blended Program

TED 5348 - Student Teaching B in Blended Program

TED 5349 - Student Teaching C in Blended Program

TED 5350 - Curriculum and Instruction: Mathematics in the Elementary School

TED 5351 - Psychological Foundations of Education and Planning for Instruction

TED 5352 - Curriculum and Instruction: Reading/Language Arts in the Elementary School-A

TED 5354 - Student Teaching I

TED 5355 - Equity and Diversity/Teaching English Learners A

TED 5356 - Curriculum and Instruction: Reading/Language Arts in the Elementary School-B

TED 5357 - Curriculum and Instruction: Teaching Science, Health and Safety in the Elementary School

TED 5359 - Student Teaching II

TED 5360 - Curriculum and Instruction: Reading/Language Arts and Social Studies in the Elementary School

TED 5361 - Student Teaching III

TED 5366 - Equity and Diversity/Teaching English Learners B

TED 5367 - Bilingual Methods

TED 5371 - Classroom Implications of the Culture of the Latino Child

TED 5372 - Team Seminar I: Orientation to TPA Subject-Specific Pedagogy Task I and Reflection on Field Practice

TED 5373 - Team Seminar II: Orientation to TPA Designing Instruction Task II and Reflection on Field Practice

TED 5374 - Team Seminar III: Orientation to TPA Assessing Learning Task III and Reflection on Field Practice

TED 5375 - Team Seminar IV: Orientation to TPA Culminating Teaching Experience Task IV and Reflection on Field Practice

TED 5376 - Curriculum and Instruction: Physical Education Methods

TED 5377 - Curriculum and Instruction: Visual and Performing Arts Methods

TED 5378 - Teaching Special Populations in General Education Settings

TED 5380 - Health and Safety in the Secondary School

TED 5381 - Field Experience in the Single Subject Classroom A

TED 5382 - Field Experience in the Single Subject Classroom B

TED 5383 - Field Experience in the Single Subject Classroom C

TED 5443 - Student Teaching A in Bachelors Plus Program

TED 5444 - Student Teaching B in Bachelors Plus Program

TED 5445 - Student Teaching C in Bachelors Plus Program

TED 5446 - Social Studies I - Instructional Methods in Single Subject Classroom

TED 5447 - Social Studies II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

TED 5448 - Social Studies III - Instructional Methods in Single Subject Classroom: Focus on Literacy

TED 5449 - Social Studies IV - Instructional Methods in Single Subject Classroom: Focus on Equity

TED 5450 - English I - Instructional Methods in Single Subject Classroom

TED 5451 - English II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

TED 5452 - English III - Instructional Methods in Single Subject Classroom: Focus on Literacy

TED 5453 - English IV - Instructional Methods in Single Subject Classroom: Focus on Equity

TED 5454 - Math I - Instructional Methods in Single Subject Classroom

TED 5455 - Math II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

TED 5456 - Math III - Instructional Methods in Single Subject Classroom: Focus on Literacy

TED 5457 - Math IV - Instructional Methods in Single Subject Classroom: Focus on Equity

TED 5458 - Science I - Instructional Methods in Single Subject Classroom

TED 5459 - Science II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

TED 5460 - Science III - Instructional Methods in Single Subject Classroom: Focus on Literacy

TED 5461 - Science IV - Instructional Methods in Single Subject Classroom: Focus on Equity

TED 5462 - ART I - Instructional Methods in Single Subject Classroom

TED 5463 - ART II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

TED 5464 - ART III - Instructional Methods in Single Subject Classroom: Focus on Literacy

TED 5465 - ART IV - Instructional Methods in Single Subject Classroom: Focus on Equity

TED 5466 - Music I - Instructional Methods in Single Subject Classroom

TED 5467 - Music II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

TED 5468 - Music III - Instructional Methods in Single Subject Classroom: Focus on Literacy

TED 5469 - Music IV - Instructional Methods in Single Subject Classroom: Focus on Equity

TED 5470 - Spanish I - Instructional Methods in Single Subject Classroom

TED 5471 - Spanish II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

TED 5472 - Spanish III - Instructional Methods in Single Subject Classroom: Focus on Literacy

TED 5473 - Spanish IV - Instructional Methods in Single Subject Classroom: Focus on Equity

TED 5474 - Hindi I - Instructional Methods in Single Subject Classroom

TED 5475 - Hindi II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

TED 5476 - Hindi III - Instructional Methods in Single Subject Classroom: Focus on Literacy

TED 5477 - Hindi IV - Instructional Methods in Single Subject Classroom: Focus on Equity

TED 5478 - PhysEd I - Instructional Methods in Single Subject Classroom

TED 5479 - PhysEd II - Instructional Methods in Single Subject Classroom: Focus on Differentiated Instruction

TED 5480 - PhysEd III - Instructional Methods in Single Subject Classroom: Focus on Literacy

TED 5481 - PhysEd IV - Instructional Methods in Single Subject Classroom: Focus on Equity

TED 5512 - Reading/Language Arts for the Multiple Subject Teacher

TED 5549 - Foundations of Teaching: Principles and Practices in Early Childhood Education

TED 5550 - Psychological Foundations of Education and Classroom Environments

TED 5551 - Curriculum and Instruction: Mathematics and Technology in the Elementary School

TED 5552 - Curriculum and Instruction: Reading/Language Arts in the Elementary School - A

TED 5553 - Curriculum and Instruction: Reading/Language Arts in the Elementary School - B

TED 5554 - Curriculum and Instruction: Teaching English Learners in the Elementary School

TED 5555 - Curriculum and Instruction: Science, Health, Safety, and Technology in the Elementary School

TED 5556 - Curriculum and Instruction: Equity, Diversity and Social Studies in the Elementary School

TED 5557 - Curriculum and Instruction: Visual & Performing Arts and Physical Education Methods in the Elementary School

TED 5560 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar I

TED 5561 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar II

TED 5562 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar III

TED 5563 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching Seminar IV

TED 5564 - Multiple Subject Transitional Kindergarten to Grade 3 PACT Seminar I

TED 5565 - Multiple Subject Transitional Kindergarten to Grade 3 PACT Seminar II

TED 5566 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching I

TED 5567 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching II

TED 5568 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching III

TED 5569 - Multiple Subject Transitional Kindergarten to Grade 3 Student Teaching IV

TED 5700 - Reflections on Professional Practice: a Supportive Environment for Student Learning

TED 5702 - Reflections on Professional Practice: Assessing Instructional Experiences

TED 5703 - Reflections on Professional Practice: Instructional Planning, The Lesson

TED 5704 - Reflections on Professional Practice: Standards-Based Instruction

TED 5705 - Reflections on Professional Practice: Instructional Planning

TED 5706 - Reflections on Professional Practice: Standards-Based Assessment

TED 5900 - Independent Study

Theatre Arts: Activity

THEA 1494 - Theatre Production Activity Courses: Festival Activity A

THEA 2494 - Theatre Production Activity Courses: Festival Activity B

THEA 3494 - Theatre Production Activity Courses: Festival Activity C

THEA 4494 - Theatre Production Activity Courses: Festival Activity D

Theatre Arts: Theatre

THEA 1005 - How to See a Play

THEA 1006 - A Peek Behind the Scenes

THEA 1013 - Ancient World Theatre

THEA 1016 - All the World's a Stage: Theatre for Social Change

THEA 1020 - Discover Acting

THEA 1021 - Black Experience in Performance

THEA 2072 - Cultural Groups in Performance

THEA 2073 - Beginning Solo Plays from Personal Experience A

THEA 2075 - Beginning Solo Plays from Personal Experience C

THEA 2078 - Solo Performance: Production

THEA 2211 - Asian Thought in Theatre

THEA 2212 - From Stage to Screen: Dramas and the Films They Inspired

THEA 2214 - The Plays of Arthur Miller

THEA 2223 - Queering the Stage: Gay, Lesbian, Bisexual and Transgender Theatre in America

THEA 2225 - America on Stage

THEA 2226 - Women in Performance

THEA 2269 - Arts and Media of the Golden State

THEA 2310 - Oral Interpretation of Literature

THEA 2429 - Fundamental Backstage Technology: Practical Drafting and Model Building

THEA 3000 - Theory of Theatre Performance

THEA 3050 - Teleplay Acting and Production Workshop

THEA 3058 - Intermediate Acting: Voice and Movement Techniques

THEA 3061 - Period Acting

THEA 3070 - Leadership in Cultural Production

THEA 3071 - Creating a Cultural Production

THEA 3072 - Cultural Groups in Performance

THEA 3073 - Solo Performance: Research Methods

THEA 3074 - Solo Performance: Talk Story Techniques

THEA 3075 - Solo Performance: Writing about Political and Social Issues

THEA 3078 - Solo Performance: Production

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 3208 - Postmodern Theatre

THEA 3209 - Sex, Love, and Women on Stage and in Film

THEA 3217 - Theatre of Horror

THEA 3220 - The History of Black Theatre

THEA 3225 - Theatre Today

THEA 3230 - Shakespeare on Film

THEA 3253 - Theatre Through the Ages

THEA 3254 - Scenery, Lights, and Sound Concepts

THEA 3255 - Costumes and Makeup Concepts

THEA 3256 - Directing: Text to Stage

THEA 3257 - Design for Stage

THEA 3310 - Interpretation of Women's and Ethnic Literature

THEA 3311 - Filipino Theatre

THEA 3326 - Ethnic Women Playwrights and Performers

THEA 3487 - Voice for Shakespearean and Period Theatre

THEA 3610 - Interpretation of Children's Literature and Story Telling

THEA 3650 - Dramatic Activities for Children

THEA 3660 - Children's Theatre Performance

THEA 3898 - Cooperative Education

THEA 3999 - Issues in Theatre

THEA 4151 - Senior Festival Preproduction

THEA 4152 - Senior Festival Performance

THEA 4155 - Career Management Issues in Theatre Arts

THEA 4375 - Ethnic and Immigrant Theatre in the United States

THEA 4900 - Independent Study

Women's Studies

WOST 1001 - Perspectives on Women

WOST 1002 - Women in Contemporary Society

WOST 1100 - Introduction to Feminist, Gender, and Sexuality Studies

WOST 1200 - Perspectives on Women in the U.S.

WOST 1300 - Femininity and Masculinity

WOST 2100 - Theories of Sexuality

WOST 2200 - Roots of Feminisms

WOST 3030 - Immigrant and Refugee Women

WOST 3050 - Feminist Theory

WOST 3110 - Theories of Feminism I

WOST 3200 - Theories of Feminism II

WOST 3300 - Women, Law, Policy and Activism in the Contemporary U.S.

WOST 3400 - Women and Careers

WOST 3420 - Minority Women in America

WOST 3440 - Women and Social Constructions of Sexuality

WOST 3520 - Mothers, Daughters, and Sons

WOST 3530 - Women and Their Bodies

WOST 3545 - Women's Health and Health Care

WOST 3550 - Women, Work, and Family Life

WOST 3600 - Women and Work in the U.S.

WOST 3700 - Comparative Perspectives on Global Feminisms

WOST 3800 - Women and Consumption

WOST 3810 - Domestic Discontents in the Contemporary U.S.

WOST 3850 - Research Practices and Methods for Feminist Scholarship

WOST 3900 - Violence Against Women

WOST 3999 - Issues in Women's Studies

WOST 4130 - Women in Midlife Transition

WOST 4160 - Women and Aging

WOST 4200 - Gender, Sexuality and Popular Culture in the U.S.

WOST 4300 - Women and Global intersecting Structures of Oppression

WOST 4500 - Feminist Thought into Action

WOST 4600 - Action Research Seminar I

WOST 4700 - Action Fieldwork in Women's Studies I

WOST 4800 - Action Fieldwork in Women's Studies II

WOST 4900 - Independent Study

WOST 4910 - Action Research Seminar II

College of Business and Economics

Valley Business & Technology Center, VBT 129 - Office Hours: 8a.m.-5p.m., M-F - 510.885.3323

Mission Statement:

CBE provides life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders. We aspire to be a leading business school known for making a difference in the lives of our students and for our impact on the world.

Jagdish Agrawal, PhD, Dean

Xinjian Lu, PhD, Associate Dean

In support of our mission, we value:

- Ethical behavior and personal integrity
- Collegiality and mutual respect
- Collaboration for learning, scholarship, and community engagement
- Social and environmental responsibility
- Inclusive learning environment for a diverse student population
- Innovative thinking and a global mindset

Expected Outcomes

- Student professional success.
- Innovative academic programs meeting business and professional needs.
- Improvement in student learning based on teaching innovations.
- Intellectual contributions to the body of knowledge in the theory, practice and teaching of business.

Institutes and Centers

Center for Economic Education
Director: Jane E. Lopus

China America Business and Education Center (CABEC)
Director: Nancy Mangold

Human Investment Research and Education (HIRE) Center

Interim Director: Glen Taylor

Smith Center for Private Enterprise Studies

Director: Stephen Shmanske

Student Service Center: (VBT 129, 510-885-3323)

Email: cbe_ssc@csueastbay.edu

Website: <http://www.csueastbay.edu/cbe>

All degree programs in the College of Business and Economics are accredited by the AACSB International (Association to Advance Collegiate Schools of Business).

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).

<p>CBE Undergraduate Advising</p> <p>VBT 129 (510) 885 - 3323</p>	<p>CBE Graduate Advising</p> <p>VBT 132 (510) 885 - 2419</p>	<p>Graduate Programs Office</p> <p>VBT 430 (510) 885 - 2419</p> <p><i>Director: Joanna Lee (VBT 429)</i></p>	<p>BSBA Online Program</p> <p>VBT 459 (510) 885 - 3376</p>
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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.

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.

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 Radovilsky, 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.

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.

College of Education and Allied Studies

Arts & Education Building, AE 111 - Office Hours: 8a.m.-5p.m., M-F - 510.885.3942

College of Education and Allied Studies

Mission Statement:

The College of Education and Allied Studies (CEAS) is committed to "Preparing Leaders Committed to Social Justice and Democracy," a commitment reflected in our mission, values and goals. Our mission is "To prepare collaborative leaders, committed to professional excellence, social justice and democracy, who will influence a diverse and interconnected world." To develop such leaders, we seek and value the significant involvement of our partners from schools, business and community.

Carolyn Nelson, Dean

Patricia Irvine, Associate Dean

Credential Student Services Center

CSSC

Location (Main Campus): AE 235

Phone: (510) 885-2272

Office Hours: Noon to 5 p.m., Monday - Thursday

Closed Fri, Weekends, Observed Holidays

The CSSC provides a range of services to those pursuing credentials, including:

- **Advising regarding credential requirements in all programs;**
- **Screening for credential program requirements;**
- **Housing of student records;**
- **Monitoring of progress towards credentials;**
- **Verifying credential program completion;**

- Making the official credential recommendation to the Commission on Teacher Credentialing (CTC).

Center for Sport and Social Justice

CSSJ

Let's PLAY!

It's time to change the way our society thinks about sport and physical activity. At the Center for Sport and Social Justice, we are passionate about making sport at every level more inclusive, more democratic...and **joyful!**

We keep the conversation open through ongoing research, workshops, lectures, and community outreach. We provide a network for CSU East Bay students and faculty, community members, and academic experts to share ideas and experiences. Most importantly, we find innovative ways to use sport as a vehicle to create positive and lasting social change.

If you're ready to get involved, we'd love to have you on our team.

Rita Liberti, Director
510.885.3050

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

Miriam 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.

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.

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.

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.

Dept. Phone: (510) 885-3061

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.

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. 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

Diane Mukerjee, Ed.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.

Online Teaching and Learning Program

The CE Offices are located on the 1st Floor of the Student and Faculty Support (SF) building, Room 102.

We are open 8:00 a.m. to 5:00 p.m., Monday through Friday

CE Phone: (510) 885-3605

Faculty

Cal State East Bay Continuing Education (CE) programs are not only taught by industry-experienced and academically acclaimed instructors but by passionate teachers and researchers, many of which are active participants in their fields and community. You'll enjoy receiving quality feedback and instruction that goes beyond the classroom and into your everyday life. Your instructors want to see you succeed in your career above all else, making themselves available to you every step of the way.

Program Statement

California State University, East Bay Continuing Education is dedicated to providing professional development training and education to Bay Area professionals and beyond. Offering more than 35 degree and certificate programs in a variety of industries and fields, you can explore areas including Art and Design, Behavioral and Health Sciences, Business and Management, Education, Engineering and Project Management, Hospitality, Legal Studies, Medical and Healthcare, Social Work, Specialized Training, and Test Preparation.

College of Letters, Arts, and Social Sciences

College of Letters, Arts, and Social Sciences

Music Building, MB 1501 - Office Hours: 8a.m.-5p.m., M-F - 510.885.3161

Mission Statement:

The College of Letters, Arts, and Social Sciences is committed to educational engagement through theory and practice, which enables our students to enhance their understanding and appreciation of the human condition, diverse cultures and values, the natural world, and their own communities. CLASS students graduate with the foundation to be ethical and productive individuals, effective citizens, and informed participants in a global society.

Kathleen Roundtree, Dean

Dennis Chester, Associate Dean

Rafael Hernandez, Associate Dean

Friends of the Arts. org	School of Global Humanities and Cultural Studies

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

Faculty

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

Graduate Coordinator: Andrew Wong

Department of Art

The Department Office is located in the Arts & Education building, Room 1233.

Open 8:00 a.m. - 4:30 p.m., Monday - Friday.

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

Gwyn 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.

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.

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.

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

Glen Trager, Ph.D. University of California, Irvine

Department Statement

The Department of Criminal Justice Administration, 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.

Department of English

The Department office is located in the Music and Business building, Room 2579

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: 510.885.3282

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 Coordinator: Eve Lynch

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.

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.

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.

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.

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

Jesús Díaz-Caballero, Ph.D. University of Pittsburgh

Monique Manopoulos, Ph.D. The University of Iowa

Marcelo Paz, Ph.D. University of Cincinnati

Amy June Rowley, M.S. Western Maryland College

Department Statement

The Department of Modern Languages and Literatures (MLL) offers courses of study leading to a Bachelor of Arts degree with majors in French and Spanish. Academic minors are offered in Chinese Language and Cultural Studies, Mandarin Chinese, French, German, Italian, American Sign Language, and Spanish. Elementary courses are offered also in Japanese, Mandarin Chinese, Persian, and Tagalog. Students may utilize all languages and literatures 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.

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

Dept Phone: (510) 885-3135

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.

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.

Department of Political Science

The Department Office is located on 4th Floor of the Meiklejohn Hall building, Room 4094

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

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.

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. - 5:00 p.m., Monday through Friday

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

Institute for Governmental Research and Training: Toni E. Fogarty (Director)

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.

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.

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

Graduate Advisor: Patricia Jennings

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.

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.

International Studies Program

The Department Office is located on the 2nd Floor of the Robinson Hall building, Room 204

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3155

Faculty

Professors Emeriti

Norman A. Bowen (Political Science), Ph.D. State University of New York at Albany

Laurie Price (Anthropology, Geography and Environmental Studies), Ph.D. University of North Carolina, Chapel Hill

Professors

L. Iliana Holbrook (Modern Languages and Literatures), Ph.D. University of California, Davis

Michael D. Lee (Anthropology, Geography and Environmental Studies), Ph.D. London School of Economics (England)

Associate Professor

Vahid Fozdar (History), Ph.D. University of California, Berkeley

Andrew Wong (Anthropology, Geography and Environmental Studies), Ph.D. Stanford University

Director: Michael D. Lee

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.

Liberal Studies Program

The Department Office is located on the 3rd Floor of the Meiklejohn Hall building, Room 3035/3037

Office Hours: 9:30 a.m. - 4:30 p.m., Monday - Thursday; Close 2:30 p.m. Fridays

Dept. Phone: (510) 885-3852

Faculty

Associate Professor

Nancy M. Thompson (History), Ph.D. Stanford University

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.

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.

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

College of Science

North Science Building, NSC 131 - Office Hours: 8a.m.-5p.m., M-F, - 510.885.3441

College of Science

Mission Statement

The College of Science, by fostering an environment where students, faculty and staff work collaboratively to expand knowledge in the disciplines of science and mathematics, seeks to provide both majors and non-majors with a science foundation that is appropriate to their career goals and with knowledge and skills that will allow them to function as responsible and contributing members of society.

Jason Singley, Dean

Danika LeDuc, Interim Associate Dean

In support of its mission, the College of Science is committed to provide:

- A climate which encourages students, faculty, and staff to contribute to the intellectual, cultural, and economic life of the university and the communities it serves
- Academic programs that meet the evolving needs of its students and outreach programs that serve those within the primary service areas of the university
- Facilities and technology that support the learning environment
- A learning community which ensures students of varying age, ethnicity, culture and socio-economic status are equally well served
- An environment that fosters a lifetime of critical inquiry and learning

Advisors

<i>Bethany Villafuerte</i> Health Science and pre-nursing advising.	<i>Jean Paul Nguyen</i> Health Science advising.	<i>Mandeep Kaur</i> Biology, Chemistry, Biochemistry advising.	<i>Denise Wong</i> Coordinator and Counselor.
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ACCLAIM

Alameda County Collaborative for Learning and Instruction in Mathematics (ACCLAIM) is a regional initiative cosponsored by the California State University, East Bay (CSUEB) and the Alameda County Office of Education (ACOE), with the cooperation of local school districts.

East Bay Science Project

The mission of the Best Institute is to develop creative teacher exchange in diverse communities. We are a partnership of university faculty, in-service and pre-service teachers, and public school administrators.

Our focus is on rigorous science content aligned with the California Science Content Standards. Our ongoing assistance will serve to support a pool of excellent teacher leaders who will carry their scientific and pedagogical expertise into their schools and to their students.

Biotechnology Program

The Biotechnology Certificate Program (BCP) was established at CSUEB in 1986 to meet the personnel requirements of the rapidly expanding Bay Area biotechnology industry.

Mental Health Workforce and Education Exchange

The Mental Health Workforce and Education Exchange at the California State University, East Bay is dedicated to providing information essential to building and sustaining a mental health workforce in the San Francisco Bay Area.

Pre-professional Health Academic Program, PHAP

The PHAP operated by the College of Science provides a number of services to students of the University: general counseling about degree requirements, career choices, and personal decisions; assistance in selecting courses to meet admission requirements of the health professional schools; aid in preparation for national tests (such as DAT, GRE, and MCAT); information about health professional programs and careers in the health professions; aid in preparation of applications to professional schools; and submission of letters of evaluation in support of applications.

CS Student Service Center

The Student Service Center serves College of Science students' who seeks help with selecting their classes, create an education plan, or major checks. The center serves students studying the following majors:

Bio-Chemistry, Biology, Chemistry, Health Science, Pre-Nursing, Statistics

Our mission is to enhance and facilitate the teaching and learning of mathematics across all communities in the Bay Area. The Center is designed to benefit both faculty members, who are seeking opportunities for grant funding, and funders from outside granting agencies interested in participating in the improvement of mathematics education. CMER provides a centralized location that describes the work and expertise of the university faculty. CMER promotes opportunities for outside entities, who are interested in getting involved in community educational improvement, to collaborate with higher education faculty in Math and Education at Cal State University, East Bay.

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.

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.

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

Edna E. Reiter, Ph.D. University of Cincinnati

Istvan Simon, Ph.D. Stanford University

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

Graduate Coordinator: David Yang

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.

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.

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 Ganjeizadeh, 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.

Department of Mathematics

The Department Office is located on the 3rd Floor of the North Science (SC-N) building, Room 335.

Hours Open: 8:00 a.m. to 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-3414

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.

Department of Nursing and Health Sciences

The Department Office is located on the 1st Floor of the North Science (SC-N) building, Room 143.

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 A. 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.

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.

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 do therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industry, business, and the professions. Careers in psychology are already plentiful and fulfilling, and the field is one of the fastest growing in the world.

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 Coordinator: Lynn Eudey

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.

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).

Academic Programs & Graduate Studies, and Undergraduate Studies

Student Services Administration (SA) Building,

APGS: Ste 4500

UGS: Ste 1500

Office Hours: 8a.m.-5p.m., M-F

APGS: 510.885.3716

UGS: 510.885.2990

Academic Programs & Graduate Studies, and Undergraduate Studies

Donna Wiley, Interim Associate Vice President, APGS

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

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 CSUMentor 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 Human Development chapter or Liberal Studies chapter in the undergraduate section of the catalog.

University Honors Program

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 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:

1. 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.
2. Effectively communicate the methods, techniques, and findings of their original research or creative project in a written, oral, or visual format.
3. Work collaboratively with persons from different fields of specialization to address complex challenges and everyday problems.
4. 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:

1. Undergraduate students admitted to the university with a minimum 3.60 cumulative GPA, and
2. Students who have maintained a 3.60 cumulative GPA in their last 36 quarter (or equivalent semester) units of baccalaureate-level coursework.

3. 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.
4. 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:
 1. 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.
 2. 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.
 3. 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:

1. Take two of the four required Honors-designated courses outside of the students' major and minor programs.
2. Take Honors-designated courses with letter grades only. Credit/No Credit courses will not be accepted for Honors designation.
3. Make progress towards program completion by taking at least one Honors-designated course per academic year with a letter grade of "B" or better.
4. 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.
5. 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.

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.

University Library

University Library, LIBY Main Circulation - Open Hours: varies daily - Circulation: (510) 885-3612
Reference: (510) 885-3765, libhelp@csueastbay.edu
Administration: (510) 885-3664, libadmin@csueastbay.edu

University Library

John Wenzler, Dean of Libraries

Librarians

Linda S. Dobb, M.S. Simmons College; J.D. University of California, Hastings College of the Law
Liz Ginno (Library Faculty Chair), M.L.S. University of Washington, Seattle
Douglas B. Highsmith, M.S.L.S. University of Illinois, Urbana-Champaign; M.B.A. Northern Illinois University
Aline Soules, M.S.L.S. Wayne State University; M.A. University of Windsor; M.F.A. Antioch University, Los Angeles

Associate Librarians

Stephanie Alexander, M.S. University of Michigan at Ann Arbor
Thomas F. Bickley, M.S.L.I.S. The Catholic University of America; M.A. (Music) American University, Washington, DC; M.Div. Wesley Theological Seminary
Dana S. Edwards, M.S.L.I.S. University of Illinois, Urbana-Champaign; M.A. (English as a Foreign Language) Southern Illinois University, Carbondale
Kyzyl M. Fenno-Smith, M.L.S. University of Washington, Seattle
Sharon Radcliff, M.L.I.S. University of California, Berkeley
Diana Wakimoto, M.S.L.S., Simmons College; Ph.D. Queensland University of Technology (Australia)
Jiannan Wang, M.L.I.S. University of Iowa; M.S. (Computer Science) University of California, Riverside

Senior Assistant Librarians

Jeffra Bussmann, M.L.S. San José State University
Andrew Carlos, M.L.I.S. San José State University
Gretchen Keer, M.L.I.S. Rutgers University
Lana Wood, M.S. Simmons College

University Libraries Mission Statement

The mission of the University Libraries at Cal State East Bay is to provide user-focused quality services and collections in support of undergraduate and graduate programs, faculty research, and the general

information needs of the diverse community. The University Libraries provide access to recorded knowledge in all formats regardless of ownership. Consistent with the teaching mission of the university, the libraries assist students in becoming information competent, critical thinkers, and life-long learners. The University Libraries provide physical facilities to foster individual and collaborative teaching and learning and to encourage the exchange of ideas.

The Libraries' mission is accomplished through the following goals:

Identify, acquire, organize, preserve, and provide access to pertinent recorded knowledge to support teaching, research, and creative activities.

Develop and promote a comprehensive information literacy program that addresses specifically the Institutional Learning Outcomes of helping students locate, evaluate and use information appropriately.

Provide an easily accessible, user-friendly and safe environment that fosters teaching and learning.

Engage in outreach to the campus and wider communities to inform them about library resources and services, identify needed resources and services, and promote partnerships.

Aspire to be a forward thinking, dynamic organization that is responsive and flexible in order to achieve its mission and goals.

Continue to improve the library's effectiveness through systematic, on-going outcome assessment.

The University Library plays an important role on campus, constantly transforming its services to support the teaching and learning needs of students and faculty in an ever-changing digital environment. The University Library continues to house locally owned printed materials and provides access to extensive electronic information resources online. The library instruction program teaches students how to locate and use the right information at the right time. The University Library also provides facilities where students use the latest technology tools in the Learning Commons, collaborate with their peers in group study rooms, or study in quiet areas.

Information Resources

The University Library offers extensive collections, both in print and online, to support academic programs and faculty research. The library holds over 900,000 printed items, including books, journals, scores, maps, and U.S. federal and California state government publications. The library currently maintains over 300 print subscriptions to journals, some of which offer free on-line access to electronic versions. In addition, it has over 850,000 microform items, and over 30,000 media resources. The library subscribes to many electronic databases and provides access to approximately 101,000 journals and over

120,000 electronic books. The University Library supports and maintains both special collections and archives. Special Collections houses rare and antiquarian books; fine examples of book art; and manuscript collections, such as the Jensen Family papers, which provide rich primary sources on the history of the Hayward area. The University Archives contain the official records of the history of the university, as well as materials pertinent to the history of Southern Alameda County. The library online catalog at <http://csueb.iii.com/search/X> can be searched by author, title, subject, call number, and keywords. Visit the library website at <http://library.csueastbay.edu> to discover information resources both within and beyond the walls of the library.

Instructional Services

The library offers LIBY 1210 (Introduction to Information Literacy), a course which satisfies the General Education Information Literacy requirement. The library also offers LIBY 1551 (Information Skills for the Electronic Age). (See the Library chapter in the undergraduate section of this catalog for course descriptions and further information.) In addition to credit courses, the library offers course-specific instruction and workshops at faculty request to complement specific projects and papers assigned in class.

Reference Services

The library offers reference assistance in person at the Reference Desk, over the telephone, through electronic chat reference, and via e-mail. Librarians are also available by appointment and during scheduled office hours for individual consultation regarding library research. For every department on campus, subject specialist librarians have created a LibGuide. For a list of the librarians and their subject areas, see the see <http://csueastbay.libguides.com/browse.php?o=a>.

Circulation and Borrowing Services

Most library printed materials are available for check-out. For details about our circulation policies, ask at the Circulation Desk or contact us at (510) 885-3612, orcircservices@csueastbay.edu. The library participates in LINK+ (at <http://csul.iii.com>), a resource sharing service that enables faculty, staff, and students to place their own requests to borrow books that are not available at Cal State East Bay. Books are borrowed from public university libraries throughout the state. Interlibrary Loan staff help you borrow books and journal articles not readily available at the University Library or through LINK+. You can make interlibrary loan requests through the library web site at <https://csueastbay.illiad.oclc.org/illiad/logon.html>.

Media Resources and Reserves

From the Upper Mall Service desk, the library provides access to media resources such as DVDs, compact disks, videos, and other formats. Viewing and listening equipment is available. Reserve materials that faculty members have set aside for class use are available at this desk, or through Blackboard if materials are available in digital format.

The Library as Place

The library is your intellectual center to study, engage in research, and share knowledge and insight with others. Various spaces within the library are designed to facilitate group and individual work. The library offers the following: (1) The Learning Commons, a state-of-the-art facility offering the largest group of computers on campus, coupled with access to the collections, services, and support offered by the library; (2) Adaptive Technologies which include several workstations on wheelchair accessible tables, and special speech and text magnification software; (3) Photocopy Services, self-service machines available throughout the library (machines accept currency, coins, and copy cards); (4) Networked Printing Services, computers in the Learning Commons and wireless laptops allow you to print from MS Office suite (Word, Excel, PowerPoint, Access), the Internet, and library databases (5) Group Study Rooms on the Upper Mall can be reserved online with D!Bs (at <http://csueastbay.evanced.info/dibs>) and facilitate work in small groups and the intellectual exchange of ideas through discussion; (6) Student Center for Academic Achievement (SCAA) on the Upper Mall offers tutoring primarily in English and Mathematics.

Concord Campus Library

The branch campus library in Concord is a full-service library, providing reference and instructional assistance, electronic services, and circulation services. The Concord Campus Library provides access to all the resources at the main library through onsite and networked resources. Print materials from the main library can be paged for pickup in Concord.

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.*

Undergraduate Admission and Degree Information & FAQ

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.csumentor.edu.
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.

How does one become a Cal State East Bay student?

- Prospective students applying for part-time or full-time undergraduate programs of study, in day or evening classes, must submit a completed undergraduate application online and pay a \$55 application fee. The \$55 nonrefundable application fee should be in the form of a check or money order payable to "The California State University" or by credit card (at the time of submission of the application) 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.
- The CSU undergraduate and graduate applications are accessible at www.csumentor.edu. Paper applications are not accepted unless the student does not have access to a computer. In those instances, paper applications can be downloaded from the CSU Mentor website.
- An applicant must complete all required information, including the Social Security number. (The university uses this number to accurately identify student records and evaluate financial aid applications.) Be certain to accurately enter the requested academic information. Any misrepresentation could result in an offer of admission being rescinded.
- The applicant must submit all required items indicated on the student's MyCSUEB To Do list at <https://my.csueastbay.edu> by the deadline provided.
- If an applicant wants to pursue a major in nursing, they should see the Nursing, Pre-Licensure Option, B.S. chapter for special admission requirements.
- The bachelor's degree major in Music requires students audition in order to determine admission. If a student wishes to pursue a major in Music, see the Music, B.A. chapter for special admissions requirement.
- 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.

Who must complete an application?

All students in the following categories must complete an undergraduate admission application:

- High school graduates
- Community college transfer students
- Cal State East Bay students who have not been enrolled for three consecutive quarters
- Students who have a degree from a college or university and want a second baccalaureate degree if applying to an eligible program. Learn more about rules and restrictions at www.csueastbay.edu/admission.
- 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 classes¹
- Students who were previously admitted to Cal State East Bay for a particular quarter but did not enroll

If a student is uncertain whether they are required to apply, they can contact the Office of Admission at (510) 885-3500.

If an applicant holds a baccalaureate degree and wishes to pursue post-baccalaureate study or a graduate degree, they must submit an application and application fee, even if they are a Cal State East Bay graduate.

The following regulations and procedures govern admission to both the Hayward Hills and Concord campuses. 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.

1. Students must complete the "Request for Audit Grade" form available from the Cal State East Bay Student Enrollment Information Center on the first floor of the Student Services and Administration Building on the Hayward Hills campus.

What are Cal State East Bay's admission procedures and policies?

Requirements for admission to California State University, East Bay are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Code of Regulations. Complete information is available at www.csumentor.edu/planning/.

Electronic versions of the CSU undergraduate and graduate applications are accessible at www.csumentor.edu. The CSUMentor 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.csumentor.edu is expected unless electronic submission is impossible. An acknowledgement will be sent when online applications have been submitted. Application in "hard copy" form may be obtained online via www.csumentor.edu as a portable data format (PDF). Application forms

(in PDF) may also be downloaded from www.calstate.edu/sas/publications. Paper applications may be downloaded at www.csumentor.edu and mailed to CSUEB's Office of Admission.

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).

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. Academic Advising and Career Education may also assist the student in determining General Education requirements.

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.csumentor.edu
- 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.

Supplementary Admission Criteria

Each campus with impacted programs or admission categories uses supplementary admission criteria in screening applicants. Supplementary criteria may include rank-ordering of freshman applicants based on the CSU eligibility index or rank-ordering of transfer applicants based on verification of AA-T or AS-T degree, the overall transfer grade point average (GPA), completion of specified prerequisite courses, and a combination of campus-developed criteria. Applicants for freshman admission to impacted campuses or programs are required to submit scores on either the SAT or the ACT. For fall admission, applicants should take tests as early as possible, but no later than November or December of the preceding year.

The supplementary admission criteria used by the individual campuses to screen applicants are made available by the campuses to all applicants seeking admission to an impacted program. Details regarding the supplemental admission criteria are published at www.calstate.edu/impactioninfo.shtml.

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.

When is the deadline to apply?

Application filing periods are listed at www.csueastbay.edu/prospective/how-to-apply/application-and-document-deadlines/

If applying after the initial filing period, consult the campus admission office for current information. Similar information is conveniently available at: www.csumentor.edu/filing_status

Does the university have any special provisions for enrollment and admission?

High School Students

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.

Transfer Policies of CSU campuses

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.

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 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.

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.

Hardship Petitions

The campus has established procedures for consideration of qualified applicants who would be faced with extreme hardship if not admitted. Petitioners should write the campus Admission Offices regarding specific policies governing hardship admission. Students should also see the "Admissions Appeals" section under "How will the student be informed of the admission decision?" in this chapter.

Educational Opportunity Program

The Educational Opportunity Program is designed to improve access and retention of historically low-income, first generation, and educationally disadvantaged students. 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 include admission assistance, a Summer Bridge program for first-time freshmen, an EOP Welcome, academic counseling, resources/referral services, and an EOP grant 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 CSUEB 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 CSUMentor 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.

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.

Veterans

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.

Early Start Program

Entering resident freshmen who are not proficient in math or English 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.

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:

1. Possesses a high school diploma (or has established equivalence through either the General Educational Development or California High School Proficiency Examinations)
2. Has not been enrolled in college as a full-time student for more than one term during the past five years
3. 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.

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.

The above are **not** admission requirements, but are required of students as conditions of enrollment in CSU.

How will a student be notified that their application has been received?

On-time applicants 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.

What information is necessary for 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, unless exempt (see next paragraph); however 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.
A first-time freshmen or lower division transfer applicant, whose high school grade point average is at least 3.00 (3.61 for nonresidents) will have the test score requirement waived. The applicant's 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.
- If an applicant is applying for undergraduate transfer, graduate, or post-baccalaureate admission, they 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.
- If the applicant is a transfer student with fewer than 90 transferable quarter units (60 semester units) the applicant must, in addition to item #2 above, file one official 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.
- If an applicant is an international student or non-U.S. citizen, they may be required to submit additional records. See "*Are there special admission and eligibility requirements for international students?*" 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 or readmission or for dismissal from the university.

How will an applicant be informed of the admission decision?

- After an applicant's eligibility has been established, they will receive a letter of admission to the university for the term indicated. The applicant will also be informed of residency status.
- Applicants may be assured of admission if the evaluation of relevant qualifications indicates that they meet CSU admission requirements, including if applicable, campus requirements 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.
- 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.

Re-Routing

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.

Admissions Appeals

Section 89030.7 of the California Education Code requires 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 must also be published on the campus website.

If the applicant does not meet published admission eligibility standards, the student may petition the Admissions Appeals Committee 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.

What are the minimum admission requirements for freshmen?

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 "*Subject 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 can be calculated by multiplying your grade point average by 800 and adding your total score on the mathematics and critical reading scores of the 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.

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). 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. (See: "*Are there special admission and eligibility requirements for international students?*" in this chapter.)

An applicant will qualify for regular admission when the university verifies that the applicant has

graduated from high school, has a qualifying minimum eligibility index and has completed the comprehensive pattern of college preparatory "a-g" subjects. Applicants applying to an impacted program must also meet all required supplementary criteria.

Note: The CSU uses only the ACT score or the SAT mathematics and critical reading scores in its admission eligibility equation. The SAT or ACT writing scores are not currently used by CSU campuses.

Provisional Admission

CSU 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. 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 SAT mathematics and critical reading scores in its admission eligibility equation. The SAT or ACT writing scores are not currently used by CSU campuses.

Eligibility Index Table for California High School Graduates or Residents of California²

A GPA of 3.00 and above qualifies for any score in ACT or SAT		
GPA	Act Score	SAT Score (Math and Critical Reading total)
2.99	10	510
2.98	10	520
2.97	10	530
2.96	11	540

A GPA of 3.00 and above qualifies for any score in ACT or SAT

GPA	Act Score	SAT Score (Math and Critical Reading total)
2.95	11	540
2.94	11	550
2.93	11	560
2.92	11	570
2.91	12	580
2.90	12	580
2.89	12	590
2.88	12	600
2.87	12	610
2.86	13	620
2.85	13	620
2.84	13	630
2.83	13	640
2.82	13	650
2.81	14	660
2.80	14	660

A GPA of 3.00 and above qualifies for any score in ACT or SAT

GPA	Act Score	SAT Score (Math and Critical Reading total)
2.79	14	670
2.78	14	680
2.77	14	690
2.76	15	700
2.75	15	700
2.74	15	710
2.73	15	720
2.72	15	730
2.71	16	740
2.70	16	740
2.69	16	750
2.68	16	760
2.67	16	770
2.66	17	780
2.65	17	780
2.64	17	790

A GPA of 3.00 and above qualifies for any score in ACT or SAT

GPA	Act Score	SAT Score (Math and Critical Reading total)
2.63	17	800
2.62	17	810
2.61	18	820
2.60	18	820
2.59	18	830
2.58	18	840
2.57	18	850
2.56	19	860
2.55	19	860
2.54	19	870
2.53	19	880
2.52	19	890
2.51	20	900
2.50	20	900
2.49	20	910
2.48	20	920

A GPA of 3.00 and above qualifies for any score in ACT or SAT

GPA	Act Score	SAT Score (Math and Critical Reading total)
2.47	20	930
2.46	21	940
2.45	21	940
2.44	21	950
2.43	21	960
2.42	21	970
2.41	22	980
2.40	22	980
2.39	22	990
2.38	22	1000
2.37	22	1010
2.36	23	1020
2.35	23	1020
2.34	23	1030
2.33	23	1040
2.32	23	1050

A GPA of 3.00 and above qualifies for any score in ACT or SAT

GPA	Act Score	SAT Score (Math and Critical Reading total)
2.31	24	1060
2.30	24	1060
2.29	24	1070
2.28	24	1080
2.27	24	1090
2.26	25	1100
2.25	25	1100
2.24	25	1110
2.23	25	1120
2.22	25	1130
2.21	26	1140
2.20	26	1140
2.19	26	1150
2.18	26	1160
2.17	26	1170
2.16	27	1180

A GPA of 3.00 and above qualifies for any score in ACT or SAT

GPA	Act Score	SAT Score (Math and Critical Reading total)
2.15	27	1180
2.14	27	1190
2.13	27	1200
2.12	27	1210
2.11	28	1220
2.10	28	1220
2.09	28	1230
2.08	28	1240
2.07	28	1250
2.06	29	1260
2.05	29	1260
2.04	29	1270
2.03	29	1280
2.02	29	1290
2.01	30	1300
2.00	30	1300

A GPA of 3.00 and above qualifies for any score in ACT or SAT		
GPA	Act Score	SAT Score (Math and Critical Reading total)
A GPA below 2.0 does not qualify for admission		

2.Reflects re-centering (recalibration) of SAT tests taken in April 1995 and thereafter. Qualifying scores for SAT tests taken prior to April 1995 that have not been re-centered can be determined by subtracting 100 from the SAT scores shown in the table.

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

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 school counselor, or the Office of Admission for more information.

Test Requirements

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

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.)

Admission with Honors

To qualify for Admission with Honors, applicants must also fully satisfy the Subject Requirements for admission to Cal State East Bay. Students admitted with Honors are eligible for the CSUEB University Honors Program (see the *University Honors Program* section in the Student Services chapter of this catalog).

- **First-Time Freshmen.** The status of Admission with Honors is conferred on a student whose high school GPA is a minimum of 3.50, counting all subjects used to determine admissibility beginning with the tenth grade.
- **Lower Division Transfers.** The status of Admission with Honors is conferred on a student whose high school record is at least equivalent to that of a first-time freshman receiving honors. In addition, the student must have a combined all-college GPA in transferable courses of a minimum of 3.50, based on work completed. Note: CSUEB does not accept lower-division transfer applicants.
- **Upper Division Transfers.** The status of Admission with Honors is conferred on a student whose combined all-college GPA is a minimum 3.50 based on transferable work completed.

What are the minimum admission standards for transfer students?

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.

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 (including CSUEB) 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) - Student Transfer Achievement Reform (STAR) Act (SB 1440)

The Student Transfer Achievement Reform (STAR) Act (SB 1440) establishes an Associate in Arts (AA-T) or Associate in Science (AS-T) for transfer for California Community College student and is designed to provide a clear pathway to the CSU degree major.

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 California Community College students a clear transfer preparation and admission pathway to those CSU degree majors deemed similar. Those students who complete these transfer degrees and who are admitted to a similar CSU major program or option for that discipline will be able to complete the Baccalaureate Degree within 60 semester or 90 quarter units providing that all remaining required courses are completed successfully without a break in attendance and providing that no supplemental courses for minors or areas of emphasis are undertaken.

California Community College students who earn an associate degree for transfer (AA-T or AS-T) are guaranteed admission with junior standing to the California State University but not to any particular campus or program. Because several CSU campuses are receiving more transfer applications from eligible students than can be accommodated, these campuses have declared impaction resulting in higher admission criteria. See more on impaction at www.calstate.edu/SAS/impactioninfo.shtml. However, transfer students who earn the AA-T or AS-T degrees, are given priority admission over other transfer applicants when applying to a non-impacted CSU campus or to a non-impacted program from a community college within the local admission area of the campus. These students are also given priority admission consideration when applying from a community college that is outside the local admission area of an impacted CSU campus or when applying to a similar program that is impacted at any CSU campus. A current list of CSU degree programs that have been deemed similar to the associate degrees for transfer can be found at www.calstate.edu/transfer/adt-search.

Those students who earn associate degrees for transfer and apply to a CSU campus but cannot be admitted due to impaction will be redirected to another CSU campus and offered admission for the same term. In order to qualify for the priority admission guarantee, transfer applicants must be conferred an approved Associate Degree for Transfer (AA-T/AS-T) by a California Community College, must apply for admission to California State University campuses for an open term by the published deadline, submit all requested transcripts and documents, meet CSU admission eligibility requirements for the campus and/or program, and must comply with any other prescribed admission requirements. It is the responsibility of these transfer students to provide documentation about the completion of the degree to each CSU campus that has received an application for admission.

Conditional Admission

Cal State East Bay may 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. A campus may rescind admission decisions, cancel financial aid awards, withdraw housing contracts and cancel any university registration for students who are found not to be eligible after the final transcript has been evaluated.

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.

How are a student's transfer units evaluated?

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. 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.
4. 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.
5. 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.

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.

AACE academic advisors 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.)

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 Experience and Prior Learning

No unit credit is allowed toward the bachelor's or master's degrees for practical experience. An exemption allowed for experience will not carry units of advanced standing or diminish the number of units required for graduation.

Credit for Military Training and USAFI

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. 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 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, that has been recommended by the American Council on Education (ACE) College Credit Recommendation Service or by the National Program on Non-Collegiate Sponsored Instruction (NCSI). The number of units allowed are those recommended in the national guides published by these organizations.

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.

Advanced Placement and International Baccalaureate

Cal State East Bay grants credit toward its undergraduate degrees for successful completion of International Baccalaureate (IB) and Advanced Placement (AP) program tests. Students will be granted 4-12 quarter units of college credit (up to 30 total units) for each test completed, depending upon the specific discipline. (See the Registration chapter for additional information.)

Are there special admission and eligibility requirements for international students?

Admission Requirements

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.

Application Filing Periods and 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 students

- If you are a transfer applicant with fewer than 60 semester (90 quarter) units of transferable work completed at the time of planned enrollment, you must have a 2.0 GPA or higher in all transferable units attempted. You must also meet the eligibility requirements for first-time freshmen applicants. (See "What are the minimum admission requirements for freshmen?" earlier in this chapter.)
- If you are a transfer applicant with 60 semester (90 quarter) units or more, you must have a 2.0 GPA or higher in all transferable units attempted.

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.

English Language Requirement

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.

CSU 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.

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 an undergraduate on a student visa, you are required by the U.S. Citizenship and Immigration Services to take a minimum study load of 12 units per quarter.

When enrolled at 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.

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. (See "*English Proficiency Requirement for Undergraduate Applicants*" section above.)

What are the enrollment requirements for transitory (visiting) students?

High School Students

See "*Does the university have any special provisions for enrollment and admission?*" in this chapter.

Intrasystem and Intersystem Enrollment Programs

Students enrolled at any CSU campus have access to courses at other CSU campuses on a space-available basis, unless those campuses or programs are impacted or their admission to the desired program or admission categories are closed. This access is offered without the students being required to be formally admitted to the host campus, and sometimes without requiring payment of additional fees. Although courses taken on any CSU campus will transfer to the student's home CSU campus as at least elective credit, the student should consult their home campus academic advisor to determine how such courses may apply to their specific degree program before enrolling at the host campus.

There are two programs for enrollment with the CSU, and one for enrollment between the CSU and the University of California or California community colleges. Additional information about these programs is available from Office of the Registrar.

CSU Concurrent Enrollment

Matriculated students in good standing may enroll on a space available basis at both their home CSU campus and a host CSU campus during the same term. Credit earned at the host campus is reported at the student's request to the home campus and 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 on a space available basis at another CSU campus for one term. Credit earned at the host campus is reported at the student's request to the home campus and included on the student's transcript at the home campus.

Intersystem Cross-Enrollment

Matriculated CSU, UC, or community college students may enroll 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.

Cross-Registration Program with the 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. (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 that 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.

Cross-Registration with Other Bay Area Two-Year and Four-Year Institutions

Programs have also been established to permit students from Cal State East Bay and those from 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 to take coursework at another school which is not available at their home campus. 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.

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.

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/>

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: (1) the General Education (G.E.) requirements for basic skills and breadth, (2) the major for depth in one field, and (3) free 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 Code:

- 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.

Catalog Rights for Graduation (Undergraduate)

To meet the seven requirements listed in the previous section, you must follow the specifics listed in this catalog. As long as you maintain attendance by enrolling in at least two quarters each calendar year, your degree requirements will remain those in this catalog. 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 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.

Your catalog rights for your major (and minor if you pursue one) are governed by the catalog in effect at the time you declare your major (or minor). Cal State East Bay publishes an annual online Catalog, but in past years only published a printed Catalog every other year with the last edition printed for the 2010-2012 years. If you entered in the second year of a printed catalog, you should check the online catalog for that year to see if there were any changes affecting your major and/or minor graduation requirements. You will not lose your catalog rights for G.E. and other graduation requirements by declaring or changing your major, if you maintain attendance.

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.

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.

General Education-Breadth 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

Narrative Description of G.E. Requirements

Lower Division G.E. Requirements (60 Units)

Area A: Communication in the English Language (12 units)

You must complete this area of the G.E. Requirements in your freshman year unless a year or more of remediation is required. You must enroll in sections of Area A1 and A2 courses which are linked to the freshman thematic learning community you select in Area B, Area C, or Area D. You must also enroll in an activity class each of the first two quarters of the learning community (see Area G, G.E. Electives).

A1 Oral Communication (4 units)

A course satisfying Area A1 must be passed with a grade of "A," "B," "C," or "CR." (To receive general education credit for 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

Students who have completed general education requirements should be grounded in the rhetorical principles that govern public presentations. These principles are fundamental to sound reasoning and clear expression. The principles foster open-mindedness and information competence combined with critical thinking and analytical skills, and an awareness of, and ability to adapt to audience, context, and purpose.

Criteria: A course meeting the Oral Communication requirement is based upon communication theory presented through lecture, discussion, and reading. It must provide several opportunities for a planned sequence of speaking and listening experiences in at least two of the following modes: (a) small-group (problem-solving) discussion, (b) interpersonal communication, (c) expository discourse presented extemporaneously, (d) argumentative and persuasive discourse presented extemporaneously. The course must provide you with constructive criticism of both substance and form of communication and must reflect awareness of the cognitive and emotional conditions dealt with by people who

communicate with others. You will complete at least five oral assignments demonstrating increasing skill in oral communication.

Student Learning Outcomes

Upon completion of your A1 requirement, you should have developed the following competencies in speaking and listening.

Speaking: (1) know how to choose and narrow a topic appropriately for a specific audience and occasion; (2) communicate the thesis/specific purpose in a manner appropriate for the audience and the occasion; (3) provide appropriate supporting material based on the audience and occasion and using appropriate technology (PowerPoint, demonstration, etc.) to present the material to the audience; (4) present logically sound, non-fallacious arguments; (5) recognize and address audience viewpoints appropriately; (6) present ideas organized in a fashion appropriate to topic, audience, occasion, and purpose; (7) use language, vocal variety, and physical behaviors that are appropriate to the audience, occasion and purpose and maintain interest and support the verbal message.

Listening: (1) recognize that listening is an interaction among the speaker, message, and audience; (2) understand the public or private context in which the interaction occurs; (3) engage with the ideas, the supporting details, and the relationships among ideas; (4) attend to messages with an open mind; (5) question speakers and messages; (6) evaluate messages using criteria appropriate to the context.

A2 Written Communication (4 units)

A course satisfying Area A2 must be passed with a grade of "A," "B," "C," or "CR." (To receive general education credit for 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)

Students who have completed general education requirements should be grounded in the rhetorical principles that govern reading and writing. These principles are fundamental to logical thinking and clear expression. For reading, they presume open-mindedness combined with critical thinking and analytical skills; and for writing, they presume an awareness of audience, context, and purpose.

Criteria: 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 EPT and do not score 147 or higher on

the test, you must pass one or more remedial English courses before enrolling in the A2 course (see Registration chapter). G.E. Area A2 must be completed by the time you reach 90 quarter units or future registration will be blocked.

Student Learning Outcomes

Upon completion of your A2 requirement, you should have developed the following competencies: (1) read for the meaning of a text by determining its purpose, intended audience, and significance; (2) understand the historical context of the text; (3) engage with and offer thoughtful responses to ideas in the text; (4) question authors and texts; (5) evaluate the text according to criteria appropriate to the context; (6) realize that writing is a recursive process involving prewriting and revision; (7) compose an essay with a clear thesis and evidence to support the thesis; (8) understand the role of logically sequenced and fully developed paragraphs; (9) develop and have confidence in one's own ideas; (10) demonstrate awareness of other points of view and how to address them; (11) incorporate research into an essay, including summarizing, paraphrasing, and properly quoting and citing material from other sources; (12) know the ethics of academic writing and of accuracy in the use of evidence; (13) organize an essay in light of audience expectations; (14) present material logically and without fallacies; (15) present material in language appropriate for the context, usually in standard written English that is grammatically and syntactically correct; (16) be familiar with strategies for timed writing.

A3 Critical Thinking (4 units)

A course satisfying Area A3 must be passed with a grade of "A," "B," "C," or "CR." (To receive general education credit for 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)

Students who have completed critical thinking requirements will develop clarity and rigor in reasoning and its presentation, and the ability to understand, represent, and evaluate the presentations of reasoning made by others.

Criteria: A course meeting the critical thinking G.E. requirement focuses primarily on: (a) identifying, analyzing, evaluating, and presenting arguments, (b) learning elementary inductive and deductive reasoning, and (c) recognizing formal and informal fallacies. You will complete a minimum of six assignments demonstrating critical thinking in a variety of contexts. At least four of these assignments must be written. A critical thinking textbook or its equivalent is required in all courses meeting this requirement.

Student Learning Outcomes

Upon completion of your A3 requirement, you should have developed the following competencies: (1) use the rules and strategies of deductive, inductive, and natural language reasoning; (2) apply the rules and strategies for testing validity; (3) evaluate statistical reasoning; (4) recognize fallacies of reasoning; (5) present orally and in writing well-reasoned cases both to support a proposition and to refute another's claim.

Area B: Natural Sciences and Quantitative Reasoning (16 units)

Students who have completed natural science and quantitative reasoning requirements will gain basic knowledge and learn key principles in the life and physical sciences, recognize the vital role experiments play in adding to scientific knowledge, and understand modern methods and tools used in scientific inquiry.

Criteria: G.E. courses in the physical and life sciences teach the methodologies of science, including systematic observation and experimentation. The laboratory course required in this General Education Area provides first-hand experience in making observations in the natural world or laboratory, the techniques and procedures of making those observations, and techniques and procedures for organizing and analyzing observations. In addition to a working knowledge of the methods of science, you will acquire an understanding of the fundamental principles of particular disciplines.

B1-3, 5 (12 units)

You must select one course in physical science and one in life science, courses from three different disciplines, and at least one of the courses must have a laboratory. You may select a freshman learning community or complete your science requirements in your second year. Sophomore courses assume a higher level of basic skills (completion of Area A and B4 requirements).

Student Learning Outcomes

Upon completion of your B1-3 requirements, you should have developed the following competencies: (1) demonstrate broad science content knowledge in the physical and life sciences; (2) demonstrate the application of quantitative skills to science problems; (3) demonstrate a general understanding of the nature of science, the methods applied in scientific investigations, and the value of those methods in developing a rigorous understanding of the physical and living world; (4) identify the difference between science and other fields of knowledge; (5) distinguish science from pseudoscience.

B4 One Course in Quantitative Reasoning (4 units)

A course satisfying Area B4 must be passed with a grade of "A," "B," "C," or "CR." To receive general education credit for 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)

Criteria: G.E. courses in quantitative reasoning teach you skills and concepts that build on what you have previously mastered in intermediate algebra. Courses that satisfy Area B4 foster the development and use of formal skills and concepts appropriate to the specific course. They emphasize problem solving, reasoning skills, and the communication of mathematical or statistical ideas. If you are not exempt

from the ELM requirement and do not score 50 or higher on the test, you must pass one or more remedial Mathematics courses before enrolling in the B4 course (see Registration chapter).

Student Learning Outcomes

Upon completion of your B4 requirement, you should have developed the following competencies.

Quantitative Literacy: (1) know formal mathematical concepts and formulae; (2) find sources for key mathematical ideas.

Numeracy Skills (Reasoning): (1) manipulate and use theories; (2) graphically display and interpret quantitative results; (3) perform basic arithmetic skills.

Problem Solving (Thinking): (1) identify and analyze real or potential problems; (2) apply appropriate quantitative theories; (3) evaluate appropriate quantitative measures; (4) explain or discuss results in quantitative terms.

You must complete your quantitative reasoning G.E. requirement in your freshman year unless three quarters of remediation are needed. In any case, G.E. Area B4 must be completed by the time you reach 90 quarter units or future registration will be blocked.

Area C: Humanities (12 units)

C1-3 (12 units)

You must select one course in the Fine Arts and one in Letters (see below) and courses from three different disciplines. You may select a freshman learning community or complete your Humanities requirements in your second year. Sophomore courses assume a higher level of basic skills (completion of Area A requirements). No Cal State East Bay course used to meet the U.S. history and government code requirement may be applied to Area C. Language courses taken to clear Area C1, Fine Arts, may not be taken credit-by-exam.

Student Learning Outcomes

Upon completion of your C1-3 requirements, you should have developed the following competencies: (1) demonstrate through oral and written works how foundational works in the humanities illuminate enduring human concerns and the intellectual and cultural traditions within which these concerns arise, including both classical and contemporary artists and theorists; (2) demonstrate a developing understanding of how historical and cultural contexts, individual works, and the development of humanities over time, interact; (3) demonstrate ability to critically employ concepts, theories, and methods of analysis used in the humanities to interpret and evaluate enduring human concerns; (4) critically reflect on the formation of human goals and values, and articulate an understanding of the

creativity reflected in works of the humanities that influenced the formation of those values.

C1 Fine Arts (4 units)

Criteria: Courses meeting this requirement have as their major component the integration of evaluative and descriptive aspects of the history, theory, aesthetics, and criticism of different works, forms, styles, and schools of art.

C2 Letters (4 units)

Criteria: Courses in this area examine significant written and oral texts of the creative intellect. The major goals are: (a) to teach the critical examination of ideas and theories through the use of historical, linguistic, literary, philosophical, and rhetorical approaches and methods; and (b) to encourage understanding of enduring human concerns and the intellectual and cultural traditions within which they arise.

C3 An Additional Humanities Course in either Fine Arts or Letters

Area D: Social Sciences (12 units)

Students who have completed social science requirements will become acquainted with basic principles, methodologies, theoretical problems, and applications in those sciences whose field of study is human behavior in its social environment. No Cal State East Bay course used to meet the U.S. history and government code requirement may be applied to Area D.

D1-3 Basic Requirements (12 units)

You must select three courses in the social sciences from three different disciplines. You may select a freshman learning community or complete your social sciences requirements in your second year. Sophomore courses assume a higher level of basic skills (completion of Area A and B4 requirements).

Student Learning Outcomes

Upon completion of your D1-3 requirements, you should have developed the following competencies: (1) demonstrate, orally and in writing, recognition of the application of disciplinary concepts derived from at least three social or behavioral sciences in the study of human behavior, individually and in society; (2) demonstrate, orally and in writing, recognition of the inquiry methods used by at least one of the social or behavioral science disciplines; (3) demonstrate, orally and in writing, the ability to describe how human diversity and the diversity of human societies influence our understanding of human behavior, individually and in societies, both local and global; (4) demonstrate, orally and in writing, some knowledge of the political, social, and/or economic institutions of a country other than the United States; (5) demonstrate, orally and in writing, the ability to describe major positions

and contrasting arguments made on one or more significant contemporary issue area confronting U.S. society as applied to human behavior.

Criteria: Courses fulfilling the Basic Social Science requirements present the fundamental principles and methods of inquiry that are grounded in social science disciplines.

Area F: Performing Arts and Activities (4 units)

Criteria: Courses in this area 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.

Area G: Electives (4 units)

G1-2-3 Activity Courses Accompanying Freshman Learning Communities (2 units)

This is a one-unit and two .5-unit activity courses (two hours of class) which accompany the freshman learning communities (Areas B1-3, C1-3, D1-3).

Criteria: They integrate the thematic and Area A course content, build learning communities, and integrate academic skill development and support services. They also include the development and honing of particular skills (e.g., writing, speaking, calculating, and reasoning) at various levels depending on the individual student's proficiency.

G4 Information Literacy (2 units)

Criteria: Courses fulfilling this G.E. requirement develop information processing and technical competencies. The former include the ability to recognize a need; find resources; access, evaluate, and organize information; understand ethical, social and legal dimensions; and communicate information. The latter include the ability to select and use the appropriate technology.

Upper Division G.E. Requirements (12 units)

To be eligible to begin taking upper division G.E. courses, you must have completed 90 quarter (60 semester) units, your lower division G.E. requirements, including critical thinking (Area A3), ENGL 1002, and the University Writing Skills Requirement. You may complete Areas B6, C4, and D4 in your junior or senior year.

The 12-unit upper division General Education program of Cal State East Bay serves a variety of purposes. It enables students to study subjects outside their majors at a more advanced level than in lower division

G.E. courses by building on the skills developed in earlier classes in English composition, oral communication, critical thinking, and information literacy. The upper division Science course (Area B6) focuses on scientific inquiry and stresses numeracy, quantitative analysis, information literacy, and critical thinking skills. The upper division Humanities course (Area C4) focuses on history, literature, and philosophy, and stresses advanced writing, speaking, and reasoning skills. The Social Sciences course (Area D4) focuses on the application of the methodologies and research findings of the social sciences to significant contemporary problems, and stresses advanced writing and information literacy skills.

Upper division G.E. courses also give students the opportunity to explore new subjects unrelated to their majors, or to complement their majors with supportive courses in departments outside their major department. Students may ask their major advisors for a list of courses that relate to, and support study in their major field.

Area B6: Upper Division Science (4 units)

A 4-unit upper division course in the sciences (life or physical science) that includes numeracy, quantitative analysis, information literacy, and critical thinking skills. Students must complete their lower division B1-5 requirements prior to taking their B6 course.

Student Learning Outcomes

Upon completion of your B6 requirement, you should have developed the following competencies: (1) demonstrate advanced and/or focused science content knowledge in a specific scientific field using appropriate vocabulary and referencing appropriate concepts (such as models, uncertainties, hypotheses, theories, and technologies); (2) apply advanced quantitative skills (such as statistics, algebraic solutions, interpretation of graphical data) to scientific problems; (3) demonstrate understanding of the nature of science and scientific inquiry and the experimental and empirical methodologies utilized in science to investigate a scientific question or issue; (4) critically analyze scientific claims and data; (5) apply science content knowledge to contemporary scientific issues (e.g., global warming) and technologies (e.g., cloning), where appropriate.

Area C4: Upper Division Humanities (4 units)

A 4-unit upper division course in the humanities (history, literature, philosophy) that includes a significant writing component and emphasizes advanced communication and critical thinking skills.

Student Learning Outcomes

Upon completion of your C4 requirement, you should have developed the following competencies: (1) demonstrate an understanding of, and ability to, apply the principles, methodologies, value systems, and thought processes employed in human inquiries; (2) demonstrate an understanding of the cultural endeavors and legacies of human civilization; (3) be able to discuss and deliberate about opposing viewpoints in an insightful and logical manner; be able to present an opposing side fairly and to criticize the argument rather than attacking the person; (4) demonstrate a developing intellectual curiosity and a habit of lifelong learning through choice of research topics, the number and quality of questions asked in class, the application of course concepts or themes to lived

experiences or world events, or through other similar means; (5) demonstrate the potential for participating in, and contributing to, a democratic society as an informed, engaged, and reflective citizen.

Area D4: Upper Division Social Sciences (4 units)

A 4-unit upper division course applying the research findings of the social sciences to significant contemporary problems and emphasizing advanced writing and information literacy skills.

Student Learning Outcomes

Upon completion of your D4 requirement, you should have developed the following competencies: (1) demonstrate an understanding of and ability to accurately apply disciplinary concepts of the social or behavioral sciences to the study of human behavior, individually and in society; (2) demonstrate an understanding of, and the ability to, effectively conduct or plan research using an inquiry method of the social or behavioral sciences; (3) explain in writing, using examples, how human diversity and the diversity of human societies influence our understanding of individual and collective human behavior; (4) develop advanced skills in oral and written argument in the social or behavioral sciences.

General Degree Requirements

These are to be satisfied simultaneously with the lower and upper division Area requirements described above.

- A total of 72 quarter units of coursework are required to meet the General Education-Breadth Requirements. Normally, no course taken in the major department, as designated by course prefix, may be applied to the 72-unit G.E. program. Exceptions are: (1) in Areas A, B4, and G4 and one course in one thematic learning community (B1-3, C1-3, D1-3), unless certified by California community colleges and/or other CSU campuses; (2) Modern Language majors may use courses in another language; (3) a course required for the major, but not offered by the major department, may be applied to G.E. No course taken to satisfy the U.S. History, U.S. Constitution, and California State and Local
- Government requirement may be applied to G.E. unless certified by California community colleges or other CSU campuses. No cooperative education courses may be applied to G.E.
- Must complete ENGL 1002 (College Writing II) or transfer equivalent before attaining 90 quarter units.
- Complete U.S. History, U.S. Constitution and California State and local government requirement through coursework or exams (details to follow).
- A minimum of 12 quarter units of the General Education-Breadth Requirements must be taken in residence at Cal State East Bay. (You are in residence if admitted to and regularly enrolled in the university).
- A minimum of 12 quarter units of upper division (3000 and above) coursework applicable to the General Education-Breadth Requirements must be taken after you attain upper division status (90 or more quarter units). You cannot use community college courses to satisfy this requirement.

You must take these 12 units in Areas B6, C4, and D4. No course taken in the major department, as designated by course prefix, may be applied to the upper division G.E. 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 below 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").

Student Learning Outcomes

Upon completion of your Cultural Groups/Women requirement, you should have developed the following competencies: (1) knowledge of, and respect for, one or more of the groups and their contributions to U.S. society, including, but not limited to, three or more of the following aspects-historical, linguistic, cultural, economic, political, literary; (2) ability to analyze critically the relationships between the groups and the dominant society, between the groups themselves, and between members of the same group; (3) working knowledge of the groups' histories and contemporary experiences as subjects (as opposed to objects or victims) and of their voices and expressions, including, but not limited to, oral traditions, writings, and art forms; (4) comprehension of the origins and functions of discrimination, exploitation, and oppression of the groups, both historically and in the present, and ability to identify various patterns of discrimination.

Transfer Students

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. You should note that 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 the General Education web page (<http://www.csueastbay.edu/ge/transfer/index.html>) 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.

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.

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 can appear on your diploma if you request it when filing for 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."

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.

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 request 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.

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. (For certificate programs, Cal State East Bay courses may be taken through University Extension or as a regularly admitted and enrolled student.) You may not receive a certificate if you have already received a major, option, or minor with the same title.

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.

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 one of three CLEP tests offered each quarter by the Testing Office, and passing a Category II (ASSIST US-3) course, or (b) passing two courses (one course from each of the following two categories) which cover all three topics:

First Category (ASSIST US-1 and/or ASSIST US-2):

- 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 (ASSIST US-3):

- 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. You will still be required to complete a Category II course (ASSIST US-3) in the second category above.

University Writing Skills Requirement (Undergraduate)

In addition to the lower-division General Education requirements in 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 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 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 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 course three times consecutively and have not passed and have a letter of good faith effort from your most recent first-tier instructor, you may apply to the Senior Director, Undergraduate Studies and General Education 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 General Education for information on this waiver (510.885.2941).

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 Director, Undergraduate Studies and General Education, 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 General Education for information on this waiver (510.885.2941).

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

Transfer Requirements

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 proposition; 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. 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.

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.

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.

Applying for Graduation

Students are advised to review completion of degree requirements with their department before filing for graduation.

Students must apply for graduation one term in advance of the term in which they intend to graduate. Students 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 (<https://my.csueastbay.edu>) 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".

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.

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 Credential Student Service Center in the College of Education and Allied Studies.

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.

Academic Honors

In the Grading and Academic Standards FAQ 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.

Graduate Credit

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.

Graduate/Post-Baccalaureate Admission and Degree Information

Cal State East Bay welcomes students who are interested in graduate & post-baccalaureate studies.

There are four steps to the application process for most prospective students:

1. Applicants must submit an online CSU application for admission at www.csumentor.edu.
2. Most graduate degree programs at Cal State East Bay also require that an applicant complete a separate *departmental* application.
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.

Graduate and Post-Baccalaureate Admission

Admission to the University

All graduate and post-baccalaureate applicants (e.g., Ed.D., joint Ph.D. applicants, master's degree applicants, those seeking educational credentials or certificates, and where permitted, holders of baccalaureate degrees interested in taking courses for personal or professional growth) must file a complete graduate application as described in the graduate and post-baccalaureate admission materials at: www.csumentor.edu. Applicants seeking a second bachelor's degree should submit the undergraduate application for admission unless specifically requested to do otherwise. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the \$55 nonrefundable application fee. Since applicants for post-baccalaureate programs may be limited to the choice of a single campus on each application, re-routing to alternate campuses or later changes of campus choice are not guaranteed. To be assured of initial consideration by more than one campus, it is necessary to submit separate applications (including fees) to each. Applications submitted by way of www.csumentor.edu are expected unless submission of an electronic application is impossible. An electronic version of the CSU graduate application is available at www.csumentor.edu

Depending on the objective, the CSU will consider an application for admission as follows:

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, Sub-chapter 3 of the California Code of Regulations.

Specifically, a student shall at the time of enrollment:

- 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.
- Be in good academic standing at the last college or university attended.
- Attained a cumulative grade point average of at least 2.5 in an acceptable earned baccalaureate degree, or a grade point average of at least 2.5 in the last 60 semester units (90 quarter units) attempted, or hold an acceptable post-baccalaureate degree earned at a regionally accredited institution.
- 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.

Application Filing Periods

The application filing periods are listed on the Application and Document Deadlines page of the university's website.

Note: Not all graduate programs accept applications for every term.

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. Also the applicant should review the chapter describing the graduate program in this catalog.

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 this chapter for more information.

For information on changing major, degree, or credential objectives after you have been admitted, see the **Change of Educational Objective** section in this chapter.

Admission Categories

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, including Cal State East Bay, do not offer admission to unclassified post-baccalaureate students).

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, and the CSU admissions portal, www.csumentor.edu, are good sources of the most up-to-date information.

International Admission 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.

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 Filing Periods and Deadlines for International Students

The university has established deadlines to ensure that all application materials will be processed in time to allow you to make the necessary passport, visa, travel and other arrangements to reach the campus before the start of the semester 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).

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 Proficiency Requirement for Post-Baccalaureate and Graduate Applicants

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.

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, Verification 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. For additional information, see **Post-Baccalaureate Classification** in this chapter. Enrollment in courses through Open University in University Extension may not count for visa certification purposes.

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.

Transitory Admission Requirements

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 information on Intrasystem Concurrent Enrollment and Intrasystem Visitor Enrollment, as well as information on the Cross-registration program with the University of California, Berkeley, and selected other East Bay colleges, see "*What are the Enrollment Requirements for Transitory (Visiting) Students?*" in the Undergraduate Admission and Degree Information & FAQ chapter.

Fees: Graduate

The California State University is one of the most economical public universities in the nation and Cal State East Bay's 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. 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 fee payments are made, to increase or modify any listed fee, without notice, until the date when instruction for a particular academic session has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by The Board of Trustees.

Schedule of Graduate and Post-Baccalaureate Registration Fees, 2016-2017

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.)

Graduate/Post-Baccalaureate Registration Fees, Effective Fall 2016 ^{1,2}

	0.1 to 6.0	6.1 or more
Tuition Fee*	\$1,302	\$2,246
Student Body Fee	43	43
Facilities Fee	2	2
University Union Fee	55	55
University Union	65	65

Recreational Fee		
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	\$1,666	\$2,610

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 \$4,998 for 0.1 to 6.0 units a quarter and \$7,830 for 6.1 or more units a quarter.**

Graduate Business Professional Fee, 2016-2017

The Graduate Business Professional Fee is charged in addition to the Tuition Fee and campus fees. The per-unit fee of \$169.00 is charged for required courses taken by students who have been admitted and enrolled in one of the following Professional Business Graduate Programs: Master of Business Administration (MBA), MS Business Administration, MS Taxation. The fee is also charged for prerequisite courses taken by students who have an admission status and are enrolled in one of these programs.

Schedule of Education Doctorate Registration Fees, 2016-2017

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 Registration Fees, Effective Fall 2016 ^{1,2}

	0.1 to 22.0 Units
Tuition Fee*	\$3,706
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
Photo I.D. Photo I.D. (quarterly fee)	1
Total	\$4,070

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 2016 through Summer 2017 is \$16,280 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.**

For information on how to pay fees, as well as information on other fees (e.g., library fees, individual course fees, test fees, etc.), see the Student Financial Services chapter in this catalog. The Student Financial Services chapter also has information on the policies governing debts owed to CSUEB.

Credit Cards, Cash, Check

You may use credit cards (American Express, Discover, and MasterCard), cash, or check for payment of registration fees. See the current *MyCSUEB* for additional information.

Fees: Credential

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 fees. This fee level will apply whether or not the student is simultaneously enrolled in a master's degree program.

Qualified Teacher Credential Registration Fees, Effective Fall 2016 ^{1,2}

	0.1 to 6.0 Units	6.1 to more Units
Tuition Fee*	\$1,228	\$2,116
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	\$1,592 (QTR)*	\$2,480 (QTR)*
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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 qualified teacher credential students for the academic year (three quarters) is \$4,776 for 0.1 to 6.0 units a quarter and \$7,440 for 6.1 or more units a quarter.*

Credit Cards, Cash, Check

You may use credit cards (American Express, Discover, Visa, and MasterCard), cash, or check for payment of registration fees. See the current MyCSUEB for additional information.

Residency Determination

The Office of Admission determines residence status of all new and returning students for nonresident tuition purposes. For information on the criteria used in making this determination, as well as residence determination dates, see the Undergraduate Admission and Degree Information & FAQ chapter in this catalog. (Legal residents of California are not charged tuition, only fees. See the *Nonresident Tuition* section in this chapter.)

Nonresident Tuition

Nonresident Tuition (in addition to other fees charged to all students) per unit or fraction thereof is \$248.

Note: The total nonresident tuition paid per quarter will be determined by the number of units taken. Mandatory system wide fees are waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on Fee Waivers in the Student Financial Services chapter).

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

A student is considered a Graduate Student at Cal State East Bay if they have 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. 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 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 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 (Graduate)

To meet the five requirements listed in the previous section, you must follow the specifics listed in this catalog. As long as you maintain attendance by enrolling in at least two quarters each calendar year, your degree requirements will remain those in this catalog. 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 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 more than two years. Your catalog rights for your master's degree are governed by the catalog in effect at the time you were admitted to your program. If you 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.

Please note that 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 Prospective 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 (old 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 (old 6), you will be required to take the course option (see below). If your score is Developing Competence (old 7), you need only take a second-tier 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 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. Students who choose to meet this requirement through class work do not ever have 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 first tier.

Two second-tier courses are currently offered: ENGL 3003, and MKTG 3495 (business majors are required to take this course 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 course three times consecutively and 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.

Candidacy: Defined

"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 Experiences

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.

Policies & Procedures

Registration

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.

Prerequisites: See "*What information do students need to enroll in classes?*" in the Registration chapter.

Grading

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 chapter for the description of withdrawal policies and procedures. The administrative symbol for withdrawal cannot be assigned by a faculty member. See "*What changes can students make in their enrollment status?*" in the Registration chapter for a 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.

The academic grading symbols used for graduate courses are as follows:

Academic Grades	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
CR ²	Credit	0
NC ²	No Credit	0

1.Note 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.

2.These 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 rarely used, and will be assigned by the Registrar only if grade reports are delayed by circumstances beyond the student's control, such as their instructor's illness.

A student may drop a course at any time during the first two weeks of instruction. (For Drop procedures, see the *MyCSUEB*.) No mention of a dropped course appears on the student's permanent record. 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. (See *What changes can students make in their enrollment status?* in the Registration chapter and "*What are the administrative grading symbols, and what do they signify?*" in the Undergraduate Admission and Degree Information & FAQ chapter for additional information on withdrawal procedures.)

The administrative grading symbols used for graduate courses are as follows:

Administrative Grades 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

3. For definitions of administrative grades, see "*What are the administrative grading symbols, and what do they signify?*" in the Grading and Academic Standards FAQ 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.

Final Examinations

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.

Probation and Disqualification

There are two types of probation and disqualification: (1) academic, and (2) administrative. If a student is an "Unclassified Post-Baccalaureate" student, that is 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.

Reinstatement to a Graduate Program

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 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

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 (see the Grading and Academic Standards FAQ chapter). 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. For additional information, see "What recourse do students have if they believe they have received a grade that is inappropriate?" in the Grading and Academic Standards FAQ chapter.

Honors

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.

Post-Baccalaureate Classification: Defined

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 an "Unclassified Post-Baccalaureate" student (i.e., not enrolled in a master's degree program), is 12 or more units.
- 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" under "*What information do students need to enroll in classes?*" in the Registration chapter.

Credit for Transferred Courses

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:

- The student must have taken the course after earning a bachelor's degree;
- Their department must accept the course(s) as relevant to their degree program;
- 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;
- The student must have taken the course within five calendar years immediately preceding the receipt of their degree.

A student may also apply units earned through the CSU International Programs that meet the criteria outlined above. 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.

Also see "*How may I obtain credit by examination as an undergraduate student?-Credit for Non-Collegiate Instruction*" in the Registration chapter.

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" form with the Office of Graduate Admissions. Forms are available from, and should be submitted to the Student Enrollment Information Center (Student Services and Administration Building on the Hayward Hills campus), the Office of Graduate Admissions, or to the Academic Services Office at the Concord Campus.

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.

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.

Applying for Graduation

Students are advised to review completion of degree requirements with their department before filing for graduation.

Students must apply for graduation one term in advance of the term in which they intend to graduate. Students 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 (<https://my.csueastbay.edu>) 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".

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.

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 Credential Student Service Center in the College of Education and Allied Studies.

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.

Grading and Academic Standards FAQ

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.

What is the grading policy at Cal State East Bay?

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 is to be considered final. Final course grades must be submitted by the faculty to the Office of the Registrar by the established deadline. Also see "Policies and Procedures" in the Graduate/Post-Baccalaureate Admission and Degree Information chapter.

If you believe that an appropriate grade has not been assigned, and you cannot resolve the matter informally with the instructor, department chair, and/or college dean/associate dean, you should present your case to the Presidential Appointee to the Grade Appeal and Academic Grievance (Grade Appeal) Committee, 510-885-3716, no later than one quarter after you received the grade. The Grade Appeal Committee may authorize a change of grade under certain circumstances (see "What recourse do I have if I believe I have received a grade that is inappropriate?" in this chapter.). 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 the Office of the Registrar. You have one quarter to petition the Grade Appeal Committee if you believe the instructor should have assigned an academic grade. If the instructor of record is unable to assign course grades, the Grade Committee is authorized to ensure that other qualified faculty assign grades.

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 chapter for the description of withdrawal policies and procedures.

What are the academic grading symbols and what do they signify?

Academic Grading Symbols

Academic Symbols	Definitions	Grade (Quality)
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		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.

What are the administrative grading symbols and what do they signify?

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 discreet 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 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 chapter.

How is my grade point average (GPA) computed?

Grade Point Averages and Their 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.

When are final examinations scheduled?

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.

When will I receive my grades?

Grades for the current quarter are available online after the faculty submit their official grade rosters and grades are official. To check grades and academic standing visit *MyCSUEB* at: <https://my.csueastbay.edu>

How can I qualify for the 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.

Honors at Graduation is covered in detail in the Undergraduate Admission and Degree Information & FAQ chapter.

What constitutes probation and disqualification?

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 Academic 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 "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 Academic 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.

How can I be readmitted as an undergraduate student after Academic Disqualification?

To be readmitted/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 a quarter. If you are not admitted within three quarters, you must reapply for admission. (Please see the Graduate/Post-Baccalaureate Admission and Degree Information for information about graduate reinstatement.)

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.

If you are readmitted/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/reinstated.

Can I qualify for Grade Forgiveness?

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

How do I request Grade Forgiveness?

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.

Grade Forgiveness is not possible in the following circumstances (except with approved petition):

1. 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.
2. 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.
3. Grade Forgiveness cannot be approved for any grade assigned as a result of academic dishonesty.
4. 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.

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.

Equivalent Courses

General Education course equivalencies:

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 Biology *Units: 5*
- BIOL 1001 - Introduction to Biology *Units: 4*
- BIOL 1005 - How Things Work: The Human Body *Units: 4*
- BIOL 1007 - Human Biology *Units: 4*
-
- BIOL 2010 - Human Physiology and Anatomy I *Units: 5*
- BIOL 2011 - Anatomy and Physiology I *Units: 5*
-
- BIOL 2020 - Human Physiology and Anatomy II *Units: 5*
- BIOL 2021 - Anatomy and Physiology II *Units: 5*
-
- CHEM 1601 - Basic Chemistry for the Health Sciences *Units: 4*
- CHEM 1605 - Basic Chemistry for Healthier Living *Units: 4*
-
- CHEM 1610 - Survey of Basic Chemistry for Health Sciences *Units: 6*
- CHEM 1615 - Survey of Basic Chemistry for Healthier Living *Units: 6*
-

- DANC 1201 - Dance for All Bodies and Abilities *Units: 4*
- DANC 1202 - World Dance: Oral Traditions and the Stage *Units: 4*
- DANC 1203 - Exploring the Creative and Spiritual *Units: 4*
-
- ENSC 2800 - Environmental Problems of California *Units: 4*
- ENSC 2801 - Global Environmental Problems *Units: 4*
- ENSC 2802 - Global Environmental Issues *Units: 4*
-
- ENVT 2000 - Introduction to Environmental Studies *Units: 4*
- ENVT 2001 - Environmental Perspectives *Units: 4*
-
- GEOL 1001 - Introduction to the Earth Sciences *Units: 4*
- GEOL 1003 - How Earth Systems Work *Units: 4*
- GEOL 1005 - Earth Science *Units: 4*
- GEOL 1006 - Earth Systems and Energy *Units: 4*
-
- GEOL 2300 - Natural Disasters *Units: 4*
- GEOL 2301 - Natural Hazards *Units: 4*
-
- HIST 1014 - World Civilizations I *Units: 4*
- HIST 1017 - Ancient World Civilizations *Units: 4*
-
- KIN 1625 - Nutrition and Performance *Units: 4*
- KIN 1626 - Nutrition and Performance for Bodies at Play *Units: 4*
-
- LIBY 1210 - Introduction to Information Literacy *Units: 2*
- LIBY 1551 - Information Skills in the Electronic Age *Units: 2*
-
- PHIL 1102 - Issues in Environmental Ethics *Units: 4*
- PHIL 1103 - Science, Ethics, and Technology *Units: 4*
- PHIL 1104 - The Philosophy of Environmental Science and Policy *Units: 4*
-
- PHYS 1500 - How Things Work *Units: 4*
- PHYS 1700 - Elementary Physics *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*
-
- SOC 1000 - Introduction to Sociology *Units: 4*
- SOC 1002 - Introduction to Sociology of Individual and Society *Units: 4*
-
- STAT 1000 - Elements of Probability and Statistics *Units: 5*
- STAT 2010 - Elements of Statistics for Business and Economics *Units: 5*

What recourse do I have if I believe I have received a grade that is inappropriate?

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.

More information is available from the Office of Academic Programs and Graduate Studies (Student Services and Administration Building; Tel. 510-885-3716). Grade Appeal Petition Form

How does Cal State East Bay define and handle academic 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.

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.

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.

Student 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.

What Undergraduate fees do I pay when I register at Cal State East Bay?

Schedule of Undergraduate Registration Fees

The CSU makes every effort to keep student costs to a minimum. 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 fee payments are made, to increase or modify any listed fee. All listed fees, other than mandatory systemwide fees, 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 fees 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 "Undergraduate Registration Fees" schedule reflects applicable systemwide fees 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/Post-Baccalaureate Admission and Degree Information chapter.

All Students:

Application Fee (nonrefundable), payable by check or money order at the time application is made: \$55

Undergraduate Registration Fees, effective Fall 2016 ^{1,2}

	0.1 to 6.0 Units	6.1 or More Units
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Tuition Fee*	\$1,058	\$1,824
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. (quarterly fee)	1	1
Total	\$1,422	\$2,188

***Note: The Tuition Fee for the academic year (three quarters) is \$4,266 for 0.1 to 6.0 units a quarter and \$6,564 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.**

Mandatory systemwide fees are waived for individuals who qualify for such exemption under the provisions of the California Education Code. (See "Who qualifies for fee waivers?" in this chapter.)

Footnote

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).

How should I pay my fees?

Credit Cards, Cash, Check

You may use credit cards, cash, or check for payment of registration 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.

What is Nonresident Tuition?

Nonresident (U.S. and Foreign) Tuition (in addition to other fees charged to all students) per unit or fraction thereof is \$248.

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.

Mandatory systemwide fees are waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on "*Who qualifies for fee waivers*").

How is the determination of residency for tuition purposes made?

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.

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

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 (See Campus Residency Classification Appeal below)

Campus Residency Classification Appeal

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.

Am I responsible for other fees?

In addition to the fees required of all students, you may have to pay fees for the following items:

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 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.*

What are the fees for Continuing Education courses?

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 - University Extension Programs for more information about their programs.

Where can I get information on financial assistance?

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.

Information concerning the cost of attending Cal State East Bay is available on the university website or by calling Financial Aid at (510) 885-2784, 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.

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 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>

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.

What is the average support cost & source of funds per full-time equivalent student?

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 2015/16 budget amounts were \$2,987,063,000 from state General Fund (GF) appropriations and before adding \$20.5 million CalPERS retirement adjustment, \$1,654,161,000 from tuition fee revenue and after tuition fee discounts (forgone revenue), and \$491,651,000 from other fee revenues for a total of \$5,132,875,000.

The 2015/16 resident FTES target is 356,450 and the nonresident FTES based on past-year actual is 18,630 for a total of 375,080 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 2015/16 average support cost per FTES based on GF appropriation and net tuition fee revenue only is \$12,790 and when including all sources as indicated below is \$14,101, 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 \$5,721.

The 2015/16 average support cost per FTES based on GF appropriation and net tuition fee revenue only is \$12,790 and when including all sources as indicated below is \$14,101, 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 \$5,721.

2015/16	AMOUNT	AVERAGE COST PER FTES	PERCENTAGE
State Appropriation (GF) ₁	2,987,063,000	8,380	59.4%
Net Tuition Fee Revenue ²	1,654,161,000	4,410	31.3%
Other Fees Revenue ²	491,651,000	1,311	9.3%
TOTAL SUPPORT COST	5,132,875,000	14,101	100.0%

¹Represents state GF appropriation in the Budget Act of 2015/16; GF is divisible by resident students only (356,450 FTES)

²Represents CSU Operating Fund, Tuition Fee and other fees revenue amounts (net of tuition fee discounts) submitted in campus August 2015/16 final budgets.

Revenues are divisible by resident and nonresident students (375,080 FTES).

The average CSU 2015/16 academic year, resident, undergraduate student basic tuition fee and other mandatory fees required to apply to, enroll in, or attend the University is \$6,815 (\$5,472 tuition fee plus \$1,343 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.

Who qualifies for 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 or child of a recipient of a Medal of Honor, under 27 years old, meets the income restriction and California residency requirement.

Section 68120 - Qualifying children and surviving spouses/registered domestic partners of deceased public law enforcement or fire suppression employees who were California residents and who were killed

in the course of active law enforcement or fire suppression duties (referred to as Alan Pattee Scholarships); and

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 these 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.

Section 68122 - Students who are victims of trafficking, domestic violence, and other serious crimes who have been granted T or U visa status are exempt from paying nonresident tuition if they:

- (1) attended high school in California for three or more years;
- (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.

Section 68130.5 - Students who are not residents of California are exempt from paying nonresident tuition if they:

- (1) attended high school in California for three or more years;
- (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.

What are Cal State East Bay's refund policies?

Refund of Mandatory Fees, Including Nonresident 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.

What is Cal State East Bay's policy regarding fees or debts owed to the institution?

Should a student or former student fail to pay a fee or a debt owed to the institution, 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 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 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.

What is the procedure for establishment or abolishment of student body mandatory fees?

The law governing the California State University provides that specific campus fees defined as mandatory, such as a student body association fee and a student body center fee, may be established. A student body 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 body 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 body association fees support a variety of cultural and recreational programs, childcare centers, and special student support programs. A student body 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 body 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.

Registration

What general policies affect a student's enrollment at Cal State East Bay?

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.
- **Health 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 Immunization.** All new and readmitted students must provide proof of full immunization against measles and rubella prior to enrollment. Failure to comply with this requirement will result in a hold being placed on the student's registration.
 - **Tuberculin Skin Test or Chest X-Ray.** International students must provide written proof of a Tuberculin Skin Test or chest x-ray performed in the U.S.A. during the past 12 months. Failure to comply with this requirement will result in a hold being placed on the student's registration.
 - **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 students need further details or have special circumstances, please consult with Student Health and Counseling Services. 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 Hepatitis B and the availability of the vaccine to prevent contracting the disease and indicating whether or not the student has chosen to receive the vaccination. These are not admission requirements, but are required of students as conditions of enrollment in CSU. Failure to comply with this requirement will result in a hold being placed on the student's registration. Hepatitis B immunization is available at Student Health and Counseling Services for no, or low cost. Call Student Health and Counseling Services at (510) 885-3735 for more information or to make an appointment. For convenience, a form is available online for students to download and complete. See the Student Health and Counseling Services Web site for this form or for additional information at: www.csueastbay.edu/shs
 - **Meningococcal Disease.** Meningococcal disease is a potentially life-threatening bacterial infection known to occur more frequently among students living in

residence halls. It is recommended that all incoming residential students consider the Meningococcal Vaccine as a way to reduce their risk for this potentially fatal disease. Each incoming freshman who is residing in on-campus housing is required to return a form indicating that he/she has received information about meningococcal disease and the availability of the vaccine to prevent contraction of the disease, and to indicate on the form whether or not he/she has chosen to receive the vaccination. The above are not admission requirements, but are required of students as conditions of enrollment in CSU. The vaccine is available at Student Health and Counseling Services.

***Note: The above are not admission requirements, but are required of students as conditions of enrollment in CSU.**

Student Health and Counseling Services at Cal State East Bay provides immunizations, tuberculin skin tests, laboratory and chest x-ray exams for students at low cost by appointment. For more information, call Student Health and Counseling Services at (510) 885-3735 or visit the Student Health and Counseling Services Web site at: <http://www20.csueastbay.edu/students/campus-life/shcs/>. (Note: To remove a registration hold for measles/rubella, tuberculin tests, or Hepatitis B, bring written proof to the Reception Desk at the Student Health Center.)

Reservation

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.

What information do students need to enroll in classes?

To begin, view the *MyCSUEB* online (www.csueastbay.edu/schedule). Students should consult with a faculty advisor to decide what courses they need and read the following information.

Class Schedule

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/.

Enrollment Appointment Times

Students may enroll during their assigned appointment in a maximum of 17 units. Graduating students (as defined in the general policies section above) may add units during the second enrollment period and scheduled open enrollment times, 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*.

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.

Academic Load

1. 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.
2. 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 chapter in this catalog, as well as consult the Doctoral Handbook (available from the Department office) for academic load information.

Prerequisites

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.

Auditing Courses

An auditor 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.

Maximum Units for Enrollment

In *MyCSUEB*, students may enroll for a maximum of 17 units during the enrollment period. 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 during the second enrollment period and scheduled open enrollment times. 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.

The normal academic load for full-time undergraduate students who expect to graduate by enrolling for three quarters per year for four years is 15-16 units per quarter. 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.

Course Numbers

The course numbering system indicates the level at which courses are offered. Generally, 1000 courses are freshman level, 2000 courses are sophomore level, 3000 courses are junior level, and 4000 courses are senior level. If students have completed the prerequisites, they may enroll for undergraduate courses irrespective of numbers.

English 1001 and Math Requirements

If students have earned 90 or more baccalaureate-level quarter units without having passed ENGL 1001 College Writing I, 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.

Additional Credit Request

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.

Individual Study Courses

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.

Independent Study Courses

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.

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.

Dual Matriculation for High School Students

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.

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.

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.

What determines a student's classification?

In general, students are classified either as a full-time or part-time student, and are classified by grade level.

Classification of Students as Full- or Part-Time

The following classifications apply to students enrolled in the fall, winter, spring, and summer quarters (not University Extension non-degree programs and summer sessions):

1. Full-time undergraduate students (including students seeking a second baccalaureate) are those enrolled in 12 or more units in a regular quarter. Part-time undergraduate students are those enrolled in fewer than 12 units. (Note that in order to graduate in 4 years or 12 quarters, students must complete 15-16 units per quarter.)
2. Full-time enrollment for "Unclassified Post-baccalaureate" students not enrolled in a graduate degree program is 12 or more units in a regular quarter.
3. Full-time enrollment for "Graduate" students and "Classified Post-baccalaureate" students is 8 or more units.
4. 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), international students wishing INS certification, student athletes wishing to

compete in intercollegiate sports, and students on most types of financial aid must be enrolled in courses that apply to a definite program (baccalaureate or master's degree and/or credential).

Classification of Undergraduates by Grade Level

Undergraduate Students are assigned a class level according to the following plan:

	Quarter Units Earned Toward the Degree
1. Lower Division	
Freshmen	Fewer than 45
Sophomores	45 but fewer than 90
2. Upper Division	
Juniors	90 but fewer than 135
Seniors	135 or more
Graduating Seniors	150 or more, filed, and paid fee

International Student Enrollment Policies

The U.S. Custom 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.

How do students enroll 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 the *MyCSUEB* for operating hours and for enrollment procedures. If students have any difficulties enrolling, they can call the Office of the Registrar at 510-885-2784.

Cooperative Education, Independent Study, Individual Study, Project, Thesis 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.]

Students will not be able to enroll for Independent Study, Individual Study, Project, Departmental Thesis, University Thesis or Dissertation courses in *MyCSUEB*. A "Special Registration Petition" available from the department offering the course, is required for enrollment.

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. 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.

Fee Refunds

If students are eligible for a fee refund, see "Information About Paying Fees" on the university's Web site for information. The refund policies are also available in the Student Financial Services chapter of this catalog under the section "What are Cal State East Bay's refund policies. "

What changes can students make in their enrollment status?

Students may add other classes, drop or withdraw from classes, and make a few other changes as discussed below.

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. See the next section "Withdrawing from the University" for information on withdrawing from all courses in a term.

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.

Withdrawing from Course(s)

Students can not "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 and Academic Standards FAQ chapter of this catalog.

Withdrawing from the University

If students find it necessary to cancel their enrollment or to withdraw from all classes after enrolling for any academic term, they are required to follow the university's official withdrawal procedures described above. 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. Students may also need to apply for readmission if they have not enrolled for three consecutive terms before being permitted to enroll in another academic term. Additional information on canceling enrollment and withdrawal procedures is available at 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.

If students receive financial aid funds, they must consult with a financial aid counselor in the Financial Aid Department 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, an action which may result in a debt owed to the institution by the student.

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 Student 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).

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 Address

Students may change their address online in *MyCSUEB*. Students must officially notify the university 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.

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.

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.

Which undergraduate placement examinations do I need to take?

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.

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 in both English and mathematics may be required to participate in the Early Start program during the summer (see *Special Provisions for Enrollment & Admission* in the Undergraduate Admission and Degree Information & FAQ chapter) and 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 may register for the EPT and/or ELM at <https://ept-elm.ets.org/CSU/>. For further information on the EPT and/or ELM, please visit the Testing Office in Library, Room LI 3165A or, visit the Testing Office Web site, or call (510) 885-3661.

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:

- Placement in the "Ready for CSU College-level English courses" category on the Early Assessment Program (EAP) English taken in conjunction with the 11th grade California Standards Test in English Language Arts
- A score of 550 or above on the critical reading section of the College Board SAT™ Reasoning Test taken March 2005 to June 2011
- A score of 500 or above on the critical reading section of the College Board SAT™ Reasoning Test effective Summer/Fall 2011
- A score of 680 or above on the writing section of the SAT Reasoning Test taken March 2005 or later
- A score of 550 or above on the verbal section of the College Board SAT I: Reasoning Test taken between April 1995 and January 2005
- A score of 680 or above on the College Board SAT II: Writing Test taken between May 1998 and January 2005
- A score of 22 or above on the enhanced ACT® English Test taken October 1989 or later
- A score of 3, 4 or 5 on either the Language and Composition or Literature and Composition examination of the College Board Advanced Placement Program
- Completion and transfer to CSU of 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.

If special circumstances make it impossible for you to take the test at the first available administration following admission, you must plan to meet the requirement at the next scheduled opportunity. Failure to take the English Placement Test as required, at the earliest opportunity after admission and before initial enrollment, will lead to a hold on the student's registration. Each test administration requires a separate registration form. If your religious convictions prevent you from taking the EPT on the scheduled test dates, you must contact the Testing Office to make special arrangements before registering. You must provide a letter on official letterhead from an appropriate religious authority to the campus Testing Office. Persons with verified disabilities should consult Accessibility Services about possible alternative arrangements for meeting the EPT requirement.

Information bulletins and registration materials for the EPT will be mailed to all students subject to the requirements. The materials may also be obtained from the Testing Office.

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).

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:

- Placement in the "Ready for CSU College-level mathematics courses" category on the Early Assessment Program (EAP) Mathematics taken in conjunction with the 11th grade California Standards Test in Summative High School Mathematics or Algebra II
- Placement in the "Ready for CSU College-level mathematics courses - Conditional" category on the Early Assessment Program (EAP) Mathematics taken in conjunction with the 11th grade California Standards Test in Summative High School Mathematics or Algebra II, PLUS successful completion of a CSU-approved math or math-related course or activity taken before you enroll at a CSU campus

- A score of 550 or above on the mathematics portion of the College Board SAT Reasoning Test
- A score of 550 or above on a College Board SAT Subject Test in Mathematics (level 1 or level 2)
- A score of 23 or above on the ACT® Mathematics Test taken October 1989 or later
- A score of 3 or above on the College Board Advanced Placement Calculus AB or Calculus BC examination
- 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

Students required to take this examination must do so as soon as possible after admission and before their first enrollment. (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 Introduction to Algebra, MATH 900 Elementary Algebra and MATH 950 Intermediate Algebra. 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/>.

There is a fee for the ELM.

Implementation of the EPT and ELM Exams

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).

Other Placement Examinations

Placement examinations are given to place students at appropriate levels of achievement as follows. Check the Class Schedule each quarter for specific details.

Modern Languages and Literatures

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.

Music Auditions and Proficiency Examinations

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.

How may I obtain credit by examination as an undergraduate student?

Cal State East Bay grants credit to those students who pass examinations that have been approved for credit system wide. These include the Advanced Placement Examinations and some College Level Examination Program (CLEP) and International Baccalaureate (IB) exams.

Credit by Examination Policy

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.

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.

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 3 or better will be granted 4-12 quarter units of transfer college credit.

The Exams - APs 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 - AP 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 Exams - IB and the Cal State East Bay credit awarded.

College Level Examination Program

Please see the list of Exams - CLEP Tests and the Cal State East Bay credit awarded.

Science Equivalency Test Program

Students who pass the American Chemistry Society Cooperative Examination in General Chemistry at or above the 50th percentile will receive 5 units of credit.

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 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.

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.

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.

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.

For information on the catalog requirements under which a student may graduate, see the Undergraduate Admission and Degree Information & FAQ chapter.

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://www.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 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 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 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.

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

Educational Opportunity Program

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. Although 80% of EOP students entering Cal State East Bay meet the CSU eligibility for regular admission, the program also provides access for a limited number of first-time freshmen who do not qualify for regular admission but have demonstrated the academic potential and motivation to pursue a college education - if given the opportunity to do so. EOP provides its participants with a broad range of support services during their undergraduate studies, as long as they maintain full-time status, make satisfactory progress, and fulfill program requirements.

Student 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.

To apply for admission to the program, you must complete the online CSU Mentor CSU Application for Undergraduate Admission and check the appropriate box for EOP services. EOP applications are available at: <http://www.csumentor.edu>. Once the Cal State East Bay application is submitted (online), EOP applicants will have access to an online EOP link to the EOP Application Information Form and two EOP recommendation letters for online processing for Fall term.

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 qualified, will be admitted on a first-come, first-serve basis. For assistance in filling out the application forms, and/or for further information about the program's eligibility requirements, please visit our website at www.csueastbay.edu/eop or contact the EOP Admissions Office at 510-885-4683.

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.

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>

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.

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 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 a Accessibility Services at 510-885-3868 or visit: <http://www.csueastbay.edu/af/departments/as/work-ability-iv/index.html>

Activities

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.

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. For complete information, see the Undergraduate Admission and Degree Information & FAQ chapter.

International Student Information

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. (See "Are there special admission and eligibility requirements for international students?" in the Undergraduate Admission and Degree Information & FAQ .)

Career Preparation

Academic Advising and Career Education (AACE)

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.

Cooperative Education

The goal of the Cooperative Education program is to enrich your educational experience by demonstrating the relevance of university study to the world of work and by providing on-the-job experience that will make interns attractive to future employers after the degree is completed.

Students have completed internships in private businesses and public and non-profit agencies, including I.R.S./C.I.D., Shaw Environmental, P.G. & E., and many more.

Normally, a co-op experience should begin during the sophomore year or later. The work schedule varies depending on the needs of the employer. Some students are offered employment with their co-op employer when they graduate.

To participate in the program, students must have at least a 2.0 GPA, be in good academic standing, and be enrolled as a regular student in the university. To register in a Co-op Ed course, students must meet the requirements of the Cooperative Education program and the academic department. Co-op courses are numbered 3898 for undergraduate students and 6898 for graduate students. If a Co-Op Ed course is available, it will be listed in the Class Schedule. Students must complete forms in AACE, as well as register for the course in order to receive credit.

In addition to Co-op Ed courses, many departments offer regular courses in internships or field practice in which students may enroll to receive academic credit for their work.

Note: International students on F-1 visas who are interested in registering for Co-op, internship, or field practice courses should contact the Center for International Education (510-885-2880) to discuss employment authorization for such courses.

Concord Campus Student Services

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.

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 Appendix 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.

Graduation

Students must apply for graduation by the end of the Add/Drop period of the quarter prior to the term in which they intend to graduate (late filing causes graduation to be delayed.) Undergraduate students should consult their academic department regarding fulfillment of major requirements, and the Academic Advising and Career Education Center regarding the fulfillment of General Education requirements. For complete information, see the Undergraduate Admission and Degree Information & FAQ chapter. Graduate students should consult with their faculty advisor. 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. Diplomas are typically printed and mailed 4-6 weeks following the posting of the degree.

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.

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

Orientation

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.

Outreach & Recruitment

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

Safety Programs

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.

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>.

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 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, 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 Concord Student Services Lobby (925-602-6700) provides the same services as the Hayward Campus, with the exception of graduation evaluation. The Academic Services Lobby is open Monday through Thursday, 9:00 a.m. to 6:30 p.m.

Academic Assistance is open 9:00 a.m. to 6:00 p.m. Monday through Thursday, and until 5:00 p.m. on Friday for questions regarding services and to schedule advising appointments. Academic advising is available for all undergraduate students regarding their non-major degree requirements. Drop-in advising is available Tuesday and Wednesday, 10:00 a.m. to 12:30 p.m., and 3:00 p.m. to 5:30 p.m. Appointments may also be scheduled in advance and, if needed, 6:00 p.m. appointments are available. Students should bring all their advising records including their most recent general education evaluation or degree audit when they come for advising. Please call ahead (510-885-3621) for any current changes to advising hours, or go to www.csueastbay.edu/aace.

The Concord Campus Academic Services Office also provides academic advising. Please call (925) 602-6700 for more information or visit the Concord Campus website at: www.csueastbay.edu/concord/

Student Government - 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.

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.

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. (See "*University Writing Skills Requirement*" in the Undergraduate Admission and Degree Information & FAQ chapter, and in the Graduate/Post-Baccalaureate Admission and Degree Information chapter).

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. See the Undergraduate Admission and Degree Information & FAQ chapter for detailed information regarding CODE requirements. 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 I (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 CBEST (California Basic Educational Skills Test), CLEP (College-Level Examination Program), GMAT (Graduate Management Admission Test), GRE (Graduate Record

Examinations), LSAT (Law School Admissions Test), MCAT (Medical College Admission Test), TOEFL (Test of English as a Foreign Language), CLAD/BCLAD (Bilingual Crosscultural Language and Academic Development Examinations), RICA (Reading Instruction Competence Assessment), and PRAXIS (Professional Assessments for Beginning Teachers), contact the Testing Office at (510) 885-3661. For more information see Other Tests.

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.

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.

See also the chapter Undergraduate Admission and Degree Information & FAQ .

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.

University Honors Program

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)

Veterans' Services

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. See "*What Determines a Student's Classification at Cal State East Bay?*" in the Registration chapter for additional information.

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.

University 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.

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 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).

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).

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. Established in 1981, the Concord Campus was the first CSU branch campus with a permanent location, and has provided quality education and services for more than two decades. 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
- **Certificates**
 - Multiple Subject
 - Single Subject
 - Paralegal Program Certificate
 - Pre-Professional Health Academic Program

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 Our Campus Facilities

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.

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.

Further demonstrating the University's regional commitment, the newly renovated Cal State East Bay's Oakland Professional Development Center specializes in programs for working adults and offers professional development and certificate courses.

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.

Campus and Bay Area Recreation

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.

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

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.

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.

Moss Landing Marine Laboratories

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.

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.

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.

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.

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.

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://www.csueastbay.edu/its/departments/cis/training-help/index.html>

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.

University Administration

University Administration and Professional Staff

Office of the President

President, Leroy M. Morishita

- Chief of Staff: Derek J. Aitken
- Special Assistant to the President: Mary Barnum
- Executive Assistant to the Chief of Staff: Andrea Lum
- Confidential Administrative Support Coordinator/Project Manager: Rebecca Olivera
- Associate Director, Government and Community Relations: Satinder S. Malhi

Academic Affairs

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

- Special Assistant to the Provost: Gina Traversa
- Director, Academic Affairs Budget and Communications: Audrey Katzman
- Director, Sustainability Initiatives: Jillian Buckholz
- Associate Provost: Linda S. Dobb
 - Director, Faculty Development: Jessica Weiss
 - Director, Center for Community Engagement: Mary D'Alleva
 - Director, Academic Advising and Career Education: Lawrence Bliss
 - 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: Donna Wiley

- Manager, Educational Effectiveness Research: Fanny PF Yeung
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- University Curriculum Coordinator/Catalog and Curriculum Specialist: Sarah Aubert
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- Instructional Design Specialist: Julie Stein
- Testing Specialist: Meena Sharma
- Presidential Appointee to the Grade Appeal and Academic Grievance Committee: Erica Wildy

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- Director, General Education, Interim: Nancy Thompson
 - Advisor/Coordinator, General Education Program: Linda Beebe

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- Director, Academic Advising and Career Education: Lawrence Bliss
- Director, University Honors Program: Bridget Ford

Associate Vice President, University Extension: Brian Cook

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- Executive Director, International Programs: Raymond P. Wallace
 - Director, Center for International Education: Kelly Moran
 - Director, American Language Programs: Thomas Tyner
- Director, Concord Campus: Robert Phelps
 - Operations Coordinator: Cecilia Zefeldt
- Manager, Oakland Center: Kevin Kinney

Associate Vice President, Research and Professional Development, Interim: Stephanie Couch

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- 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
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- Director, International Studies Program: Michael Lee
- Director, Liberal Studies Program, Interim: Jiansheng Guo
- Director, School of Arts and Media: Saeid Motavalli
 - 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: Thomas C. Hird
 - Director, Multimedia Graduate Program, Interim: Gwyan Rhabyt

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- Human Resources Coordinator: Wanda Davenport
- Associate Dean: Xinjian Lu
- Director, Undergraduate Programs: Xinjian Lu
- Director, Graduate Programs: C. Joanna Lee
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- Chair, Department of Marketing: C. Joanna Lee

Dean, College of Education and Allied Studies, Carolyn Nelson

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- Associate Dean: Patricia Irvine
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- Chair, Department of Kinesiology: Paul Carpenter
- Chair, Department of Hospitality, Recreation and Tourism: Christopher Chamberlain
- Chair, Department of Teacher Education: Eric Engdahl

Dean, College of Science: Jason Singley

- Administrative Assistant to the Dean: Mariza Sobejana
- Associate Dean, Interim: Danika LeDuc
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- Chair, Department of Chemistry and Biochemistry: Ann McPartland
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- Coordinator, Research Services: Vacant
- Coordinator, Information Literacy Services: Diana Wakimoto
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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 470,000 students with 47,000 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 Facts

- CSU faculty attract nearly \$540 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 43 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 104 fully online and 69 hybrid degree programs and concentrations.
- The CSU offers 3,253 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 470,000 students are engaged in some type of community service, totaling 32 million hours of service annually.
- More than 11,000 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.

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.

CSU Historical Milestones

The Donahoe Higher Education Act established the individual California State Colleges as a system with a Board of Trustees and a Chancellor in 1960. In 1972, the system was designated as the California State University and Colleges, and in 1982 the system became the California State University. 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 an effort to accommodate community college transfer students, the CSU, in concert with the California Community Colleges, launched the Associate Degree for Transfer, which guarantees admission to the CSU with junior status for transfer students who earn the AA-T or AS-T degrees.

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 CalState 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 develop innovative programs, services and opportunities that will give students the tools they need to meet their full potential. With 23 campuses, 470,000 students and 47,000 faculty and staff, the CSU is committed to providing a quality higher education that prepares students to become leaders in the changing workforce.

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

Ms. Lori Lamb - Vice Chancellor, Human Resources

Mr. Larry Mandel - Vice Chancellor and Chief University Auditor

CSU Campuses

To see where these campuses are located, go to the map of campus locations:

- California State University, Bakersfield
- California State University Channel Islands
- California State University, Chico
- California State University, Dominguez Hills
- California State University, East Bay
- California State University, Fresno
- California State University, Fullerton
- Humboldt State University
- California State University, Long Beach
- California State University, Los Angeles
- California State University Maritime Academy
- California State University, Monterey Bay
- California State University, Northridge
- California State Polytechnic University, Pomona
- California State University, Sacramento
- California State University, San Bernardino
- San Diego State University
- San Francisco State University
- San José State University
- California Polytechnic State University, San Luis Obispo
- California State University San Marcos
- Sonoma State University
- California State University, Stanislaus

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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.

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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.

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 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 special study center abroad. The International Programs 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, the International Programs 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, Université d'Aix-Marseille (Aix-en-Provence), 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
- Korea - Yonsei University
- Mexico - Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro
- South Africa - Nelson Mandela Metropolitan 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

Appendix

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

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.

Career Information

Academic Advising and Career Education (AACE) will 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 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.

Credit Hour Defined

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, practica, 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.

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.

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**

Immigration Requirements for Licensure

The Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (P.L. 104-193), also known as the Welfare Reform Act, includes provisions to eliminate eligibility for federal and state public benefits for certain categories of lawful immigrants as well as benefits for all illegal immigrants.

Students who will require a professional or commercial license provided by a local, state, or federal government agency in order to engage in an occupation for which the CSU may be training them must meet the immigration requirements of the Personal Responsibility and Work Opportunity Reconciliation Act to achieve licensure. Information concerning the regulation these requirements are available at <https://www.gpo.gov/fdsys/pkg/CPRT-104WPRT27305/pdf/CPRT-104WPRT27305.pdf> . More information at Cal State East Bay may be obtained through the Office of University Diversity.

(Students in Biological Science, Educational Psychology, Engineering, Kinesiology, Nursing, and Teacher Education, in particular should be aware of these provisions.)

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>.

Nondiscrimination Policy

Race, Color, Ethnicity, National Origin, Age, Genetic Information, Religion and Veteran Status

The California State University does not discriminate on the basis of race, color, ethnicity, national origin, age, genetic information, religion or veteran 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 (www.calstate.edu/EO/EO-1097-rev-6-23-15.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 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 (www.calstate.edu/EO/EO-1097-rev-6-23-15.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.

Sex/Gender/Gender Identity/Gender Expression/Sexual Orientation

The California State University does not discriminate on the basis of sex, gender, gender identity, 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:

Sexual discrimination: means an adverse act taken against an individual because of gender or sex (including sexual harassment, sexual violence, 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, a form of sex discrimination, is unwelcome verbal, nonverbal or physical conduct of a sexual nature that includes, but is not limited to, sexual violence, sexual advances, requests for sexual favors, indecent exposure and other verbal, nonverbal or physical unwelcome conduct of a sexual nature, where such 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 individual, and is in fact considered by the individual, as limiting the individual's ability to participate in or benefit from the services, activities or opportunities offered by the University. Sexual harassment includes submission to, or rejection of, where the conduct is explicitly or implicitly used as the basis for any decision affecting an individual's academic status or progress, or access to benefits and services, honors, programs, or activities available at or through the University. Sexual harassment also includes gender-based harassment, which may include acts of verbal, nonverbal or physical aggression, intimidation or hostility based on sex or sex-stereotyping, even if those acts do not involve conduct of a sexual nature. 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 or photographic 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. University policy 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.

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.

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.

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.

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 decisionmaking 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: 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: 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 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.

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>

Who 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.

**CSUEB Title IX Coordinator: Terri Labeaux 25800 Carlos Bee Blvd. Hayward, CA 94542 510-885-4918
title9@csueastbay.edu Monday - Friday 8:30am - 5:00pm**

**CSUEB Title IX Officer: Nyassa Love Risk Management and Internal Control 25800 Carlos Bee Blvd. SA
4702 Hayward, CA 94542 510-885-2743 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 25800 Carlos Bee Blvd. Hayward, CA 94542 510-885-3791

Anonymous Phone Line: 510-885-2444

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

Department of Education, Office for Civil Rights: (800) 421-3481 or ocr@ed.gov

If you wish to fill out a complaint form online with the OCR, you may do so at:

www2.ed.gov/about/offices/list/ocr/complaintintro.html

Title IX requires the university to adopt and publish complaint procedures that provide for prompt and equitable resolution of sex discrimination complaints, including sexual harassment and misconduct as well as provide training, education and preventive measures related to sex discrimination. CSU Executive Order 1097 (www.calstate.edu/EO/EO-1097-rev-6-23-15.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 below).

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

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 sexual 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 sexual discrimination, harassment or misconduct will be subject to discipline, pursuant to the California State University Student Conduct Procedures (see Executive Order 1098 at 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. 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) 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 nonprofessional counselors or advocates who or volunteer in sexual assault centers, victim advocacy offices, women's centers, gender equity centers, or health centers) 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 or Local Police

If a victim reports to local or University Police about sexual misconduct, 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 incidents when they are on notice of it. When a victim tells the Title IX Coordinator or another University employee about a sexual misconduct 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 directly to the campus Title IX Coordinator. As detailed above, 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 incident except as otherwise required by law or University policy. A sexual misconduct 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. 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 (www.calstate.edu/EO/EO-1095.pdf).

ADDITIONAL RESOURCES Cal State East Bay's sexual misconduct prevention and education statement, which includes facts and myths about sexual misconduct, at <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 Beale Street, Suite 7200
San Francisco, CA 94105
(415) 486-5555
TDD (877) 521-2172

U.S. Department of Education, national office:
Office for Civil Rights
(800) 872-5327

California Coalition Against Sexual Assault:
1215 K. Street, Suite 1850
Sacramento, CA 95814
(916) 446-2520
<http://calcasa.org/>

Know Your Rights about Title IX www2.ed.gov/about/offices/list/ocr/docs/title-ix-rights-201104.html

Domestic and Family Violence, Office of Justice Programs, U.S. Department of Justice

National Institute of Justice: Intimate Partner Violence, Office of Justice Programs, U.S. 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

Who qualifies for 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 or child of a recipient of a Medal of Honor, under 27 years old, meets the income restriction and California residency requirement.

Section 68120 - Qualifying children and surviving spouses/registered domestic partners of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of active law enforcement or fire suppression duties (referred to as Alan Pattee Scholarships); and

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 these 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.

Section 68122 - Students who are victims of trafficking, domestic violence, and other serious crimes who have been granted T or U visa status are exempt from paying nonresident tuition if they:

- (1) attended high school in California for three or more years;
- (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.

Section 68130.5 - Students who are not residents of California are exempt from paying nonresident tuition if they:

- (1) attended high school in California for three or more years;
- (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.

Reporting Campus Emergencies

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

On-campus Emergencies

Police, Fire, Medical:
911 from any phone

911 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 Report:	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

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.

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/>

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.

The following standards and regulations on students' freedoms, rights, and responsibilities are authorized by federal and state laws and by CSU policies:

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.

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.

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.

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.

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).

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.

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 the privacy of student education records maintained by the campus. The text of the statute can be found online at: www20.csueastbay.edu/students/student-services/student-records/ferpa-privacy-policy.html. The law provides that the campus must give students access to most records directly related to the student. The campus must also provide an 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 institution has adopted a set of policies and procedures governing implementation of the statutes and regulations. Copies of these policies and procedures may be obtained at 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 Office, U.S. Department of Education, Washington, D.C. 20202-4605.

The campus is authorized under the Act to release "directory information" concerning students. "Directory information" may include the student's name, Net ID, addresses, telephone numbers, e-mail address, photograph, department where employed, student employee's status, (i.e., TA GA, ISA), full-time or part-time status, graduate or undergraduate status, 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' academic, administrative or service functions and have reason for accessing student records associated with their campus or other related academic responsibilities. 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; to other institutions to which the student is transferring.) In cases of emergency, certain student education records may be released to appropriate individuals.

Student Complaint Procedure

The California State University takes very seriously complaints and concerns regarding the institution. If you have a complaint regarding the CSU, you may present your complaint as follows:

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.

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 Ms. Maggie Graney, Interim Director for Compliance and Internal Control, maggie.graney@csueastbay.edu, who 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.

Standards for Student Conduct

TITLE 5, CALIFORNIA CODE OF REGULATIONS, § 41301. STANDARDS FOR STUDENT CONDUCT

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. 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.

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.

Whistleblower Protection

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: <https://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: <https://www.calstate.edu/eo/EO-822.pdf> . As with protected disclosures, Risk Management and Internal Control is responsible for receiving and investigating retaliation complaints.

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

Acknowledgments

The online 2016-2017 University Catalog was produced under the direction of the Interim 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 Clafin, 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.