CALIFORNIA STATE COLLEGE AT HAYWARD

Summer Quarter • 1965
Summer Session
CALENDAR SUMMER QUARTER — 1965
June 15 to August 31

April 15
Deadline for undergraduate application for admission
April 12-23
Summer Quarter pre-enrollment for continuing students
June 11
Deadline for graduate application for admission
June 15
Orientation
June 16
Registration
June 17
Classes begin
June 17-24
Late registration period (9:00-12:00 a.m.; 1:00-5:00 p.m. daily with offices open until 6:30 p.m. on June 24)
June 24
Last day for enrolled students to add classes or to drop classes without record of enrollment
July 16
Deadline for application for graduation (Summer Quarter)
July 19
Application for admission to teacher credential program
July 23
Last day to drop class
July 23
American Institutions, U.S. Constitutions, California Government Examinations
August 16-18
Academic advisement for continuing students
August 19-20
Academic advisement for students entering CSCH for first time, Fall Quarter, 1965
August 25
Last day of classes
August 26-31
Final examinations
August 31
End of Quarter

CALENDAR SUMMER SESSION — 1965
June 21 to July 30

June 16
Application deadline for students attending the Summer Session only
June 21
Registration. Applicants by June 1, will receive preferential time to register in a.m. Open registration 1:00-6:00 p.m.
June 22
Classes begin
June 22
Late registration period
June 22
Last day to add classes
July 2
Last day to drop classes without record of enrollment
July 30
End of session
August 2
Grades due in Records Office for Summer Session

A Special Announcement
Cal-State at Hayward will conduct a “fourth” quarter during the summer of 1965. This experimental program by the first State College to go on year-round operation is a means of realizing greater plant utilization and also a means of increasing the educational opportunities through an expanded summer offering. During the summer, the College will also offer classes, numerous workshops, and short courses in a six-weeks summer session.

The Summer Quarter and Summer Session Compared
The summer quarter and summer session will differ in three principal respects:
1. Length of term
2. Admission requirements
3. Fees

SUMMER QUARTER
DATES OF THE SUMMER QUARTER—June 15 to August 31
Registration for the Summer Quarter will be held on June 15 and 16, and the final examination period will close on August 31. Instruction will extend over a period of time equivalent to other quarters in the academic year, thus permitting teaching-learning activities to move at a somewhat slower pace than has been customary in a summer session.

Course offerings have been carefully planned to make it possible for students to carry a full quarter’s load of 15 to 16 units. All majors are represented in the schedule, thereby making year-round educational opportunities available to our students for the first time.

ADMISSION REQUIREMENTS FOR SUMMER QUARTER
Summer Quarter students must meet all the requirements applicable to any other quarter to be fully admissible to California State College at Hayward. Freshmen students must qualify for admission by (a) Have earned 14 or more semester grades of A or B in subjects other than physical education, military science, or remedial courses during the last three years of high school, including at least six college preparatory subject grades, or (b) Have earned 10 or more semester grades of A or B in subjects other than physical education, military science, or remedial courses during the last three years of high schools and have attained the 30th percentile on national college freshmen norms of a standard college aptitude test. American College Testing Program Examination (ACT) must be completed by entering freshmen.

An applicant who has earned credit in one or more accredited colleges may be admitted if he meets the requirement for freshmen admission shown above and if he has earned a “C” or better in all college work attempted and if he was in good standing at the last college attended. An applicant who does not meet the requirements for admission with freshman standing must have earned 60 or more semester units of college credit with an over-all average of “C” in all work attempted and he must have been in good standing at the last college attended.
ADMISSION DEADLINE FOR SUMMER QUARTER

All new undergraduate students must file an application for admission by April 15, 1965, with the Office of Admissions. New graduate students with "no objective" at Cal-State must file application for admission to the Summer Quarter by June 1, 1965. Graduate students failing to meet this deadline may experience lengthy delays during registration.

STUDENTS MAY ATTEND BOTH PROGRAMS

Students who have been admitted to the Summer Quarter and who are eligible may take courses or workshops in the Summer Session by enrolling during the registration on June 21 or at the first class meeting of a workshop beginning after June 21. Fees for courses are $11.25 per quarter unit.

Students should not take more than a combined load of 15 or 16 units due to the sharply accelerated pace of courses offered in the summer session.

FEES FOR THE SUMMER QUARTER

The regular fees of the College are given below. The fees for auditors are the same as for those receiving credit for a course. "Fees are subject to change upon approval by the Trustees of the California State Colleges."

I. Registration Fees (Payable at time of registration)

A. Fall, Winter, and Spring Terms:

1. Regular students (More than 6 units) Summer
   Material and service fee ........................................ $25.50
   Student Body Fee* ........................................... 6.00
   Total ................................................ $31.50

2. Part-time students (6 or fewer units):
   Material and service fee ........................................ $13.00
   Student body fee ............................................. 2.00
   Total ................................................ $15.00

3. Nonresident tuition, per quarter (in addition to above fees):
   1 to 14 units .............................................. $11.50 per unit
   15 or more units ............................................ $167.00 total

4. Foreign student tuition, per quarter (in addition to fees in 1 or 2 above):
   1 to 14 units .............................................. $5.75 per unit
   15 or more units ............................................ $85.00 total

B. Extension Division ............................................ $6.50 per unit

C. Summer session Six-Weeks Session

Material and service fee ........................................ $11.25 per unit
Student body fee* ............................................. 3.00

There is no nonresident tuition for summer session.

II. Other Costs (Payable when service is rendered):

A. Application fee .............................................. $5.00
B. Late registration fee ....................................... 5.00
C. Change of program after final filing date .................. 1.00
D. Failure to meet administratively-required appointment or time limit 2.00
E. Graduation fee (not a state fee) ........................... 10.00
F. Check returned
   1. Registration check ....................................... 5.00
   2. Any other check .......................................... 1.00
G. Parking fee**
   1. Regular student ........................................... 9.00/qtr.
   2. Part-time student ......................................... 4.00/qtr.
H. Official transcript of record (no charge for first copy) .... 1.00
I. Items lost or broken .......................................... Cost

III. Refund Regulations

A. Any student who finds it necessary to withdraw officially from the College is eligible for a refund of a portion of the material and service fee provided the application is filed in the Records Office not later than two weeks (14 calendar days) after the term begins.

B. Any student who reduces his academic load from a regular to a limited category during the period for adding and dropping classes, is eligible for a partial refund of the material and service fee, and should apply to the Records Office not later than two weeks (14 calendar days) after the term begins.

C. Partial refunds may be granted to students receiving administrative suspension providing a request is filed by the student in the Records Office.

D. Upon withdrawal from college, nonresident or foreign student tuition will be refunded upon formal application according to the following schedule:

   Before or during the first week of the quarter ................ 100%
   During the second week of the quarter ....................... 75%
   During the third week of the quarter ....................... 50%
   During the fourth week of the quarter ....................... 25%

*No student body fees are necessary for either session if the student paid $20 during the previous academic year.

**25% of the amount listed is charged for 2-wheel vehicles.
SIX-WEEKS SUMMER SESSION

DATES OF THE SUMMER SESSION—June 21 to July 30

Registration for the Six-Weeks Summer Session will be held on June 21, classes will begin June 22, and the session will end July 30. Full-length courses will be compressed into six weeks by extending the class period and by increasing the number of class meetings per week. Numerous special workshops, seminars and short courses will be available during the summer session to meet the needs of teachers, supervisors and school administrators.

DEADLINE FOR APPLICATION TO ENROLL IN SUMMER SESSION

Students planning to take courses during the Six-Weeks Session are urged to complete the application form in the back of this bulletin along with their proposed program by June 1. Applicants meeting this deadline will receive a card setting the time to register on June 21 based upon the order in which applications are received in the Summer Session Office. All new students (graduate and undergraduate) planning to attend the six-weeks summer session must file applications by June 16 in order to provide time for processing prior to registration. All enrollment procedures may be completed for new students taking workshops only during the first class meeting.

ADMISSION REQUIREMENTS FOR SUMMER SESSION

Adult students (high school graduates) who wish to enroll for summer session courses only are not required to file an application for admission or transcript. Students are expected, however, to have satisfied the prerequisites for the particular courses in which they enroll. Students under disqualification from Cal-State, Hayward, or any other college may enroll in the summer session with the recommendation of the Director of Summer Session and the approval of the Dean of Admissions.

FEES OF THE SUMMER SESSION

Classes offered during the six-weeks session and all workshops and short courses are self-supporting—fees from enrollments are expected to cover expenses. The following fee schedule was adopted by the Trustees of California State Colleges:

FEES FOR THE SUMMER SESSION

<table>
<thead>
<tr>
<th>Fees</th>
<th>Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Six Weeks Session</td>
<td>$11.25</td>
</tr>
<tr>
<td>Student Body Fee*</td>
<td>3.00</td>
</tr>
</tbody>
</table>

There is no nonresident fee for Summer Session.

OTHER COSTS

<table>
<thead>
<tr>
<th>Cost Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>State fee for credential</td>
<td>$8.00</td>
</tr>
<tr>
<td>Late registration</td>
<td>5.00</td>
</tr>
<tr>
<td>Failure to meet administratively required appointment</td>
<td>2.00</td>
</tr>
<tr>
<td>Change of program after final filing date</td>
<td>1.00</td>
</tr>
<tr>
<td>Check returned for any cause</td>
<td>2.00</td>
</tr>
<tr>
<td>Items lost or broken</td>
<td>Cost</td>
</tr>
<tr>
<td>Complete transcript of record (no charge for first copy)</td>
<td>1.00</td>
</tr>
<tr>
<td>Parking (for Six Weeks)</td>
<td>5.00</td>
</tr>
</tbody>
</table>

REFUNDS

Summer Session refunds are made in accordance with the following schedule as approved by the Board of Trustees:

<table>
<thead>
<tr>
<th>Time of Withdrawal</th>
<th>Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Five-Weeks Session or Longer</td>
<td>First two days college classes are scheduled</td>
</tr>
<tr>
<td></td>
<td>Any other day of the first week</td>
</tr>
<tr>
<td></td>
<td>Any day of the second week</td>
</tr>
<tr>
<td>Three- and Four-Weeks Sessions</td>
<td>First two days college classes are scheduled</td>
</tr>
<tr>
<td></td>
<td>Any other day of the first week</td>
</tr>
<tr>
<td></td>
<td>Any other day</td>
</tr>
</tbody>
</table>

ACADEMIC INFORMATION

ADVICEMENT FOR NEW STUDENTS

An orientation program is being planned for June 15 for all new students: entering freshmen and transfer students. Academic advisers in the major areas will be available to assist with program planning for the summer quarter. Letters of acceptance will be mailed to new students along with information about the orientation program.

PRE-ENROLLMENT FOR CONTINUING STUDENTS

Students in attendance at Cal-State during the spring quarter will have an opportunity to pre-enroll for the Summer Quarter. Advisers will be available during the period April 12 to April 23 to assist students with planning their programs for pre-enrollment. Details regarding procedures for pre-enrollment will be announced through the PIONEER.

COLLEGE BULLETIN AND CLASS SCHEDULES

New students are urged to secure a complete college bulletin from the College Bookstore for detailed information about general education requirements, course descriptions, credential information, and other information related to college rules and regulations. A revised schedule of classes for the Summer Quarter will be available around June 1. The schedule included with this Bulletin is tentative and subject to changes, deletions and additions. Course offerings for the Summer Quarter, June 15 to August 31, are fairly firm. However, course offerings during the Summer Session and special workshops are dependent upon enrollment sufficient to make them self-supporting.

EARLY ADMISSION OF HIGH SCHOOL JUNIORS

Selected high school juniors are admissible to Cal-State if they meet the requirements for freshmen as outlined above. Permission to enroll also includes a letter of recommendation from the high school principal and a personal interview with the Associate Dean of Instruction at Cal-State or a faculty member in the department concerned.

Freshman courses in the different academic areas are open to the high school student as an opportunity to pursue his studies at a more advanced level, to enrich, deepen, and broaden his educational experiences and to foster intellectual inquiry through the stimulation that comes from college-level
classes. Courses in mathematics, psychology, anthropology, foreign language, the arts, English, history, the sciences, and the social sciences may be taken by qualified students.

Students accepted in this program for early admission are college students in every respect. They have the same admission requirements and deadlines to meet; they pay the same fees; they must meet the same course requirements; and they receive college credit for satisfactory completion of the course. The credit may be applied toward degree requirements at Cal-State, however, other institutions may or may not accept the work as transfer credit.

This opportunity to attend college is open only to superior students who have demonstrated outstanding achievement in high school and who are considered most likely to succeed in college.

AUDITING CLASSES

Persons eligible to register in the Summer Session may audit courses upon approval of the instructor and payment of the regular registration fees. With approval, a student may audit courses in addition to the maximum credit program.

STUDENT SERVICES

The student personnel office provides special services to individual students and groups of students, and serves in a consultant capacity to academic advisers and academic departments of the college. Students with questions relative to academic programs should consult their academic advisers.

COUNSELING

California State College at Hayward provides a counseling service to assist students with academic and personal adjustment and to offer professional advice on questions of a non-academic nature.

The counseling service also assists students with career planning.

SCHOLARSHIPS

Scholarships ranging from $100 to $400 are granted to outstanding students by Divisional Scholarship Committees or the College Committee on Scholarships. Each applicant will be considered for every scholarship for which he is eligible. Recipients will be selected by the respective committees on the basis of scholarship, financial need, leadership, and promise of success in their chosen fields, or in terms of criteria as may be established by the donor.

LOANS

Short-term loans are available through student loan funds established by the Faculty, the Dorothy Donahoe Memorial Fund, Sertoma, Inc. of Hayward, California, Laura Settle, California Retired Teachers Association Loan Fund, and the Alpha Gamma Chapter of Phi Epsilon Phi Sorority. Details concerning the granting of loans are available through the Financial Aids Office.

Cal-State, Hayward, is participating in the National Defense Act Student Loan Program. To be eligible for an application a student must be a United States national or a permanent resident pursuing full-time graduate or undergraduate work and must be in good standing at the institution.

Placement Services

The major objectives of the Placement Service include providing teachers for public school work; assisting graduates to find employment which best fits their needs and training; and finding part-time work for students to aid in financing their education. There is no fee for placement service.

Students and graduates seeking full-time career placement must have completed 24 units of work at the college are eligible for limited service.

Part-Time Student Employment

Students seeking part-time employment may register with the Student Personnel Office at the beginning of each quarter.

Housing

The Student Personnel Office assists students in finding suitable housing within the college community. A new, privately built, coeducational residence hall is conveniently located near the campus. Students planning not to live at home are responsible for selecting their own housing. Women students under 21 must have written approval from their parents for residence away from home. For further information contact the Dean of Men.

Alumni Association

A strong enthusiastic Alumni Association works closely with the students of Cal-State, Hayward, to promote and foster good relationships between the students of the college and the graduates. Funds of the Alumni Association from dues and other sources are used to grant awards to students of the College.

Foreign Students

Students from other countries consult with the Student Personnel Office or the Study Abroad Office concerning the granting of loans are available through the Financial Aids Office.

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Foreign Students

Students from other countries consult with the Student Personnel Office on matters affecting their visas, eligibility for employment, financial aid, travel programs, special workshops, and housing.

Student Insurance

Voluntary insurance plans covering sickness and accidents are available to students. Further information may be obtained from the student business manager or the Student Personnel Office.

Associated Students

The Associated Students is represented by a Student Council composed of a president, vice-president, secretary, and one representative from each of the six academic divisions. The Council plans and executes student activities, recognizes and charters clubs and organizations, prepares the student budget, supervises student elections, initiates activities and cultural events, and forms committees to further the work of the Student Association.

Publications

The Pioneer, the weekly college newspaper, is published by the Associated Students as a part of the journalism curriculum. The Literary Quarterly is published by the Humanities Division, and the yearbook by the Associated Students.
CURRICULA AND DEGREES

Baccalaureate Degrees With Major in:

Anthropology (BA)  
Art (BA)  
Biological Science (BS)  
Business Administration (BS)  
Business Education (BS)  
Chemistry (BA, BS)  
Economics (BA)  
Elementary Education (BA)  
English (BA)  
French (BA)  
Geography (BA)  
History (BA)  
Language Arts (BA)  
Mathematics (BS)  
Music (BA)  
Physical Education (BS)  
Physical Science (BS)  
Physics (BA)  
Political Science (BA)  
Psychology (BA)  
Recreation (BS)  
Social Science (BA)  
Sociology (BA)  
Spanish (BA)  
Speech & Drama (BA)  
Special Major (BA) or (BS)

Master's Degree With Major in:

Education (MS)  
Mathematics (MS)  
Music (MA)

Non-degree Credential Programs

The college is accredited to recommend for:

General Elementary Credential (limited to candidates accepted in a program before November 1, 1963).

Programs Leading to Direct Application for:

The general secondary credential (limited to students accepted in a program before November 1, 1963).

The Standard Teaching Credential with Specialization in Elementary School Teaching.

The Standard Teaching Credential with Specialization in Secondary School Teaching.

The Standard Designated Services Credential with Specialization in Pupil Personnel Services.

The Standard Supervision Credential.

INTERDIVISIONAL PROGRAMS

IN GENERAL EDUCATION

JUNIOR-SENIOR SYMPOSIA

The Junior and Senior Symposia are courses required of all undergraduates as follows: 1. Freshmen who enroll in September 1963 and thereafter; 2. Transfers who enroll for the first time at this institution in September 1965 and thereafter; 3. Transfers who enroll as lower-division students in September 1964 and thereafter; 4. Upper-division transfers who have been in continuous enrollment at other institutions and who transfer to this college prior to September 1965 will be required to enroll in the Junior Symposium. It is recommended that these transfers take the complete sequence.*

Junior Symposium

3801. THE IDEA OF NATURE

An exploration into the history of ideas. Interdisciplinary consideration of man's ideas of nature and man's relation to it during Greco-Roman, medieval, renaissance and modern periods. Effects of these changing views upon modern man's concepts of himself. Prerequisite: Junior standing and basic courses in natural science, humanities and social sciences. Three units.

4801. SENIOR SYMPOSIUM

A continuation of Junior Symposium 3801. Prerequisite: Junior Symposium 3801. 2 hrs. lect., 2 hrs. act. Three units.

*Courses without special notation are offered in Summer Quarter only.
DIVISION OF BUSINESS
AND ECONOMICS

BUSINESS

2251, 2252. PRINCIPLES OF ACCOUNTING
An introduction to accounting analysis and practice. Courses are sequential. Four units each.

3111. BUSINESS AND ECONOMIC STATISTICS
Statistical methods used in business and economic analysis. Four units.

3200. MANAGERIAL ACCOUNTING
Applied course with emphasis on the use of accounting information in business decisions. Not accepted as a course in the accounting field of concentration. Pre-requisite: One year of accounting. Four units.

3400. PRINCIPLES OF MARKETING
Organization and principal operating aspects of the system of distributing goods and services. Four units.

3600. PRINCIPLES OF MANAGEMENT
Introduction to business organization and management practices; interrelationships of complex human, technical, and economic factors in administration of business. Four units.

3610. PERSONNEL MANAGEMENT
Principles and methods of organized personnel work; developing optimum utilization of human resources within the organization; recruitment, selection, training, promotion, transfer, motivation and compensation. Pre-requisite: Business 3600. Four units.

3840. BUSINESS COMMUNICATIONS AND REPORT WRITING
Study of different types of business communications and practice in specialized business reports. Four units. (Summer Session)

3900. DGS: TYPING TECHNIQUES AND METHODS
Four units. (Summer Session)

4900. INDEPENDENT STUDY
One-four units. (Summer Session)

ECONOMICS

2301. PRINCIPLES OF ECONOMICS
Introduction to economic analysis and operation of the American economy. Four units each.

3000. ECONOMICS OF THE BUSINESS FIRM
The operation of the price system in a free enterprise economy; prices and decision-making. Four units.
2111. SURVEY OF MUSIC LITERATURE
A basic course in music understanding designed for the person without formal music training. 2111 will emphasize music as a communicative art, stressing music media, periods, and styles. 2112 will emphasize design and forms. Fulfills General Education Creative Arts requirement. No prerequisites. Three units each. (Summer Session)

2212, 2213, 2214. INTERMEDIATE CLASS PIANO
Continuation of 1211, 1212, 1213. Needed by music majors and minors for fulfilling basic piano requirements. Prerequisite: Music 1213 or equivalent. 2 hrs. act. One unit each.

2222. BASIC VOICE
Class instruction in fundamentals of singing. Required of music majors and minors. Open also to other qualified students. May be repeated for credit. Music 2221 prerequisite for others in series. 2 hrs. act. One unit each.

2241. BASIC ORCHESTRAL INSTRUMENTS (WOODW/IND)
2251. BASIC ORCHESTRAL INSTRUMENTS (BRASS)
ANALYSIS AND COMPOSITION
Analysis of musical structure in representative compositions from the short song form through large cyclic works and contrapuntal forms; creative development of musical ideas into suitable homophonic and contrapuntal compositions. Prerequisite: Music 2003 and 2013 or equivalent. Three units each. 3 quarters.

3500. MUSIC PERFORMANCE ACTIVITIES
The performance of music literature is a most important aspect of training process for the music student. Both music majors and minors are required to participate each quarter in a minimum of at least one music activity. Qualified students who are not music majors or minors are also invited to enroll. Music activity courses may be used to satisfy the general education requirement in creative arts and they provide suitable small unit electives for students with heavy academic programs. They may be repeated for credit. Music 3500 is open to students in lower, upper, and graduate divisions. The following sections are available:

1. Chorus
2. Band

4005. COUNTERPOINT
A study of polyphonic techniques, including melodic construction, imitation, canonic procedures, fugal procedures and non-imitative counterpoint; creative development of musical ideas in polyphony. Prerequisite: Music 3003 or equivalent. Three units.

4161. HISTORY OF THE SYMPHONY
A study of the development of the symphony orchestra and its literature through selected works from the 18th, 19th and 20th centuries. Intensive analysis by means of scores and recordings. Prerequisite: a course in music listening or history, or consent of instructor. Three units.

4800. THE ARTS IN CONTEMPORARY SOCIETY
Four units. (See description under Creative Arts listing)

5330. MUSIC IN THE ELEMENTARY SCHOOL
Aims, methods, and organization of materials for elementary classroom music with application to the adopted state music texts. Prerequisites: Music 1008 and 4110 or equivalent competency as determined by Music Department. 2 hrs. lect., 2 hrs. act. Three units.

5920. ELEMENTARY MUSIC WORKSHOP
Designed for both classroom teachers of all grade levels and elementary teachers with special music responsibilities. Will include demonstrations and discussions with respect to all aspects of the elementary school classroom music program with special emphasis on the Kodaly approach to the teaching of rhythm and music reading. This method has been particularly successful with classroom teachers. Three units. July 5-16. Mrs. Mary Helen Richards.

5921. STANFORD MOZART ERA FESTIVAL AND SEMINAR
A study of the music of Mozart and some of his 18th Century contemporaries. The course will consist of 6 evening campus lecture sessions and group attendance at 5 performances of the "Mozart Era Festival" to be held during the summer at Stanford University and featuring Stuttgart Chamber Orchestra and the Milan Opera da Camera. Included in the performances will be Mozart's opera "Così fan Tutti." In addition to the course fees, students will be expected to purchase tickets for the five performances. The lectures will be held on six Wednesday evenings beginning June 23 through July 28. The performance dates will be specified later, after the Festival publicizes a final schedule of events; however, they will all fall between the June 23 and July 28 dates. Two-three units. June 23-July 28.

5922. CHORAL MATERIALS WORKSHOP

SPEECH-DRAMA

1001, 1002. ORAL AND WRITTEN EXPRESSION, I-11
A theory and skills course covering all aspects of rhetoric, with special attention to oral communication, and work in written expression. Special emphasis is on research, organization, clarity, integrity, and delivery. Three units each term.

1003. FUNDAMENTALS OF SPEECH
A general survey of the field of speech and drama, with introductory units in voice and diction, theater, interpretation, and public speaking. Prerequisite to all Speech and Drama courses. Laboratory required for students with special speech problems. Three units.

1010. INTRODUCTION TO THE THEATER
A survey of the world of the drama, with units in stagecraft, production, selection, acting, etc. A required introduction to the field for majors, a survey-appreciation course for others. Can be used to fulfill the Creative Arts (drama) G.E. requirements. Five units.

2310. INTERPRETATIVE READING
A fundamental course devoted to theory, methods, and practice of oral communication of different types of literature. Four units.

2411. ARGUMENTATION AND DEBATE
A course stressing those elements of logic and rhetoric making up responsible argumentative discourse. Practice in parliamentary, legislative, and forensic debating technique. Five units.

4180. REHEARSAL AND PERFORMANCE
Activity course for students participating in acting, staging, and other phases of production of college-theater performances. Admission by consent of instructor. One-three units.

5922. SPEECH ACTIVITIES FOR THE TEACHER
A workshop and laboratory of drama, choral speaking, discussion, and presentation activities which may be used in any elementary or secondary classroom. Four units. June 21-July 16. Dr. Robert Martin.

5923. THEATRE IN PERFORMANCE
A reading and discussion course which centers around attendance at performances of selected outstanding plays given in the Bay Area; reading and discussion of these plays. Three units. July 5-19 plus 4 theatre performances. Dr. James Costy

5924. WORKSHOP IN BUSINESS SPEECH
Practical application of rhetorical principles, to the daily speech problems of the business executive including work in conference training, speaking, interviewing, and counseling. Meets week ends only. Three units. June 25-July 27. Dr. Robert Martin.
DIVISION OF

EDUCATION

TEACHER EDUCATION

4021. CHILD GROWTH AND DEVELOPMENT
Growth and development of the child: prenatal through childhood with special attention to the intellectual, social, and personality development in childhood. Influence of the home and school environment. Prerequisite: Basic psychology. (Students interested in becoming elementary school teachers should enroll concurrently in public school laboratory I.) Lect. 3 hrs. Three units. (Summer Session)

4600. STUDENT TEACHING IN THE ELEMENTARY SCHOOLS
Full-time student teaching under the supervision of a public-school teacher and a member of the college faculty in conjunction with a student-teaching seminar. Prerequisites: Full candidacy in elementary-education program and approval of Committee on Credentials. (Concurrent registration in Ed. 4601) Ten units.

4601. STUDENT TEACHING SEMINAR—ELEMENTARY SCHOOLS
Weekly conference period required as corequisite with student teaching—Ed. 4600. Two units.

4650. STUDENT TEACHING IN THE SECONDARY SCHOOLS
Full-time student teaching under the supervision of a public-school teacher and a member of the college faculty in conjunction with a student-teaching seminar. Prerequisite: Full candidacy in secondary-education program and approval of Committee on Credentials. (Concurrent registration in Ed. 4651) Ten units.

4651. STUDENT TEACHING SEMINAR—SECONDARY SCHOOLS
Weekly conference period required as corequisite with student teaching—Ed. 4650. Two units.

5010. CONTEMPORARY AMERICAN EDUCATION
A critical analysis of relationships between major social and historical developments and American education, emphasizing goals, purposes, scope and functioning of elementary and secondary education. (Meets credential requirements in principles of education.) Prerequisites: Ed. 3020 and Ed. 3060, or permission of instructor. Four units. (Summer Session)

5020. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION I
Principles of child development as reflected in and influenced by the school-community and society at large; counseling and guidance of secondary school students; analysis of current practices in evaluation useful to the teacher and to the school's pupil personnel services. Prerequisites: Preliminary acceptance into the Standard Teaching Credential program, concurrent registration in Ed. 5030 and Ed. 5264. Three units.

5025. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION II
Research and theory in the teaching-learning process; individual differences and their development; learning theory applied to the teaching of specific school subjects; evaluation of classroom learning; mental hygiene. Prerequisite: Basic Psychology and Child Growth and Development or Adolescent Psychology, or Psychological Foundations of Education I. (Concurrent registration in a public school laboratory or student teaching.) Lect., 3 hrs. Three units.

5030. SOCIOLOGICAL FOUNDATIONS OF EDUCATION I
Cultural historical development of the public schools in the United States; the changing social, political, and economic forces shaping the public schools. Prerequisite: Admission into the Standard Teaching Credential program. (Concurrent registration in a public school laboratory or student teaching.) Lect., 3 hrs. Three units.

5049. HOME AND SCHOOL
Dynamics of family, pupil-teacher, teacher-parent, and pupil-pupil relationships including methods and materials of family counseling, working with parent groups, parent conferences, home visits and problems of home teaching. Prerequisite: Teaching credential or consent of instructor. Lect., 3 hrs. Three units. (Summer Session)

5100. EVALUATION IN EDUCATION
Principles, techniques, and current practices of evaluation in schools. Relationship to curriculum; current practices in tests and measurements. Lect. 2 hrs., lab. 3 hrs. Three units. (Summer Quarter and Summer Session)

5210. LANGUAGE ARTS WORKSHOP
This course is designed to help the elementary school teacher improve instruction in listening, speaking, reading in the content areas, composition, spelling, and handwriting. Special emphasis will be placed on techniques which aid the teacher in developing critical thinking in students. Offered in Central Contra Costa County. 8:45-12:00 daily, 3 units. June 21-July 2. Dr. D. Hendrickson.

5250. TEACHING RESOURCES IN THE SCHOOL
Identification and review of teaching resources and materials used in school teaching; utilization of audio-visual aids and programmed learning developments in specific subjects; introduction to the college curriculum resources laboratory. Prerequisite: Admission into the Standard Teaching Credential program. (Concurrent registration in a Public School Laboratory course or student teaching.) Lect. 1 hr., act. 2 hrs. Two units.

5251. AUDIO-VISUAL METHODS AND MATERIALS
Selection, utilization and evaluation of audio-visual methods and materials in the teaching-learning process; operation of audio-visual equipment. (Fulfills credential requirement. No credit for students with prior audio-visual course.) Prerequisite: Teaching experience or permission of instructor. 1 hr. lect., 4 hrs. act. Three units. (Summer Quarter and Summer Session)

5261. PUBLIC SCHOOL LABORATORY I
Three hours supervised participation in public schools and/or youth agencies for each unit of credit. (Concurrent registrations as required with specific courses.) Lab. I, one unit; Lab. II, two units.

5270. SECONDARY SCHOOL CURRICULUM
Analysis of secondary school curriculum: practices, trends, and issues; roles of the secondary teacher, student, parent, administrator, supervisor, and counselor; current practices and techniques in measurement related to curriculum improvement. Prerequisite: graduate standing and acceptance into the secondary credential program. Four units.

5601. STUDENT TEACHING IN THE ELEMENTARY SCHOOL PHASE I

5651. STUDENT TEACHING IN THE SECONDARY SCHOOL PHASE I
Student teaching under the supervision of a public school teacher and a member of the College faculty. Prerequisite: Candidacy in the credential program and approval of the Committee on Credentials. (Concurrent registrations as required by the department. Normally, the student teaching sequence will cover two quarters.) Phase I, four units. Phase II, five units.

5800 SERIES, ELEMENTARY SCHOOL METHODS BLOCK I AND II

5811. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL I
Curriculum, methods, and resource materials in speaking, listening, spelling, writing.
5821. SOCIAL STUDIES IN THE ELEMENTARY SCHOOL I
Curriculum, resource materials, and methods in scope and sequence of social studies in the elementary school.

5831. READING IN THE ELEMENTARY SCHOOL I
Materials and methods of reading development; emphasis on group and individual techniques. Prerequisite: Admission to course work in the elementary teaching credential program. (Concurrent registration in the series and Public School Lab. III, or student teaching.) Block I—Lect., 3 hrs.; act., 6 hrs.; six units. Block II—Lect. 3 hrs., three units.

5930. WORKSHOP—IMPROVEMENT OF READING
This workshop will be concerned with reading programs that will provide for individual and group differences and with building effective methods and materials for classroom use. It will include analysis of: (1) Materials and techniques for beginning reading, (2) Pupil reading needs, (3) Phonics, (4) Pupil team learning of word skills, spelling and vocabulary, (5) Comprehension and recall in oral and silent reading, (6) Thinking abilities and study skills.
Activities of the workshop will include lectures, demonstrations, production of materials and plans for classroom use; exhibits and group discussions. Three units. Daily 1:00-4:00 p.m. June 21-July 2.

5934. LABORATORY PRACTICE IN CORRECTION OF READING DIFFICULTIES
The laboratory will provide remedial instruction for children with reading difficulties and daily practice in tutoring in clinical situation for thirty teachers who will use materials and techniques adjusted to individual differences. Each teacher will work with one child, tutoring for one hour and leading group remedial activities for one hour daily. The lecture and seminar period will provide workshop members with theory, plans, materials, and practical application of techniques and materials. Six units. Daily—Clinic 9:00-10:00 Seminar, 11:30-1:00. Enrollment limited. June 22-July 17. Dr. Walter McHugh.

5935. EDUCATIONAL AND VOCATIONAL PLANNING
Sources of educational and occupational information; evaluation of such information, and its clinical use in the counseling process. Prerequisite: Ed. 5750, 3 hrs. lect., 3 hrs. lab. Four units.

5750. PUPIL PERSONNEL WORK
Basic services included in public school pupil personnel programs. Philosophy, rationale, and basic concepts underlying such services are developed as background for study procedures, techniques, and materials employed by teachers, counselors, and others in providing guidance and related psychologically oriented personnel services. Prerequisite: Teaching experience or consent of instructor. 3 hrs. lect. and 3 hrs. act. Four units. (Summer Session)

6110. PUPIL PERSONNEL SEMINAR
Analysis and application of theoretical constructs to actual situations through case study methods, review and applications of current research and new materials. Prerequisites: Concurrent registration in Field Work and department approval. Two units.

6160. FIELD WORK IN PUPIL PERSONNEL SERVICES
Supervised field work in pupil personnel services in organized program for the various specializations for the pupil personnel services credential. Prerequisite: Approval of department, advance application, concurrent registration. Pupil Personnel Seminar. Two units.

6735. EDUCATIONAL AND VOCATIONAL PLANNING
Sources of educational and occupational information; evaluation of such information, and its clinical use in the counseling process. Prerequisite: Ed. 5750, 3 hrs. lect., 3 hrs. lab. Four units.

6746. LEARNING DIFFICULTIES
Diagnosis of learning problems in the major areas of the school curriculum. Identification of resources and programs useful in remediation and in improved techniques of study. Prerequisite: Upper division course work in measurement and learning. 3 hrs. lect., 3 hrs. lab. Four units.

6750. COUNSELING THEORY
Theory and techniques of counseling students. Use of relevant environmental and individual data in facilitating personal decisions and the development of sound educational and vocational plans. Prerequisites: Ed. 5750, Com. 6735, Com. 6901. Four units. 3 hrs. lect., 3 hrs. lab.

6862. ADVANCED FIELD WORK IN PUPIL PERSONNEL SERVICES
Application in field settings of advanced clinical skills related to the various areas of concentration in the credential. Prerequisites: Concurrent registration in Com. 6830, department approval, advance application. Two units each. (Summer Session)

6901. APPRAISAL PROCEDURE
Interpretation and use of standardized tests commonly used in the counseling process. Prerequisite: Ed. 4100, Ed. 5750, 3 hrs. lect., 3 hrs. lab. Four units.

6910. THESIS
Three-Six units.

SCHOOL ADMINISTRATION AND SUPERVISION

5941. WORKSHOP—PROFESSIONAL CONCERNS OF TEACHERS
June 21-July 2. Three units.
5942. WORKSHOP—PERSONNEL RELATIONS, PROFESSIONAL ETHICS AND THE SCHOOL ADMINISTRATOR
July 5-16. Three units. Dr. Arnold Joyal.

5943. WORKSHOP—SECONDARY SCHOOL ACCREDITATION
June 21-25. Three units. Dr. Arnold Joyal.

6000. LEADERSHIP AND SCHOOL ORGANIZATION
Leadership theories and practices in public schools. Legal, fiscal and administrative bases for school organizations. Organizational patterns in California schools. The relationship of local districts to county, state and federal educational agencies. Prerequisite: Graduate standing and two years of teaching experience. Four units.

6200. FOUNDATIONS OF CURRICULUM DEVELOPMENT

6320. PUBLIC SCHOOL SUPERVISION
Principles and techniques of classroom supervision in elementary and secondary schools. Evaluation of teaching, small group processes, human relations and communication skills in working with teachers and other leadership personnel. Prerequisite: SAS 6000, 6200 and Department approval. Four units.

6650. BUSINESS AND LEGAL ASPECTS OF SCHOOL ADMINISTRATION
Practices and problems of school finance, schoolhouse planning and construction, and business management. The legal and financial relationships of local school districts to county, state and federal agencies. Special attention to the provisions of the California Education Code. Prerequisite: SAS 6000 and Department approval. Four units.

6800 SERIES—FIELD WORK IN ADMINISTRATION AND SUPERVISION
6801. FIELD WORK I
Supervised study of a public school problem in administration, curriculum, or supervision. Problem must be of genuine concern to a local district and approved by the superintendent. Student must enroll for a minimum of two quarters. Prerequisite: Completion of all other credential requirements; approval by the Department and the cooperating district. Three units each quarter.

6901. THESIS
3-4-5-6 units.

HEALTH EDUCATION

1000. CONCEPTS OF HEALTH
Analysis of the basic concepts and principles of individual health including the investigation and evaluation of contemporary health problems and information. Meets general education health education requirement. 3 hrs. lect. Three units.

PHYSICAL EDUCATION

1010, 2010, 3010, 4010. BEGINNING ACTIVITY
Instruction in designated physical education activities on the beginning levels. May be repeated for credit. 2 hrs. act. One-half unit.

Golf
Tennis
Volleyball and Soccer

1100. HEALTH AND PHYSICAL ACTIVITY
Analysis and application of the basic concepts of health with particular emphasis on individual fitness and physical activity, including the study of individual health appraisal and problems. Meets general education health education requirement. 2 hrs. lect., 2 hrs. act. Three units.

3200. FUNDAMENTAL MOVEMENT
Fundamental physical skills, self-testing activities, games and sports, and rhythms. Prerequisite: Completion of general education requirements in health and physical education including folk and square dancing. 2 hrs. lect., 2 hrs. act. Three units.

3400. KINESIOLOGY
Study of joint articulation, muscular action, and basic principles of body mechanics as a foundation for the analysis of motor performance in physical education activities, athletics, and physical therapy. Prerequisites: Anat. and Phys. 3301 and 3302 or equivalent. 3 hrs. lect., 2 hrs. lab. Four units.

5910. WORKSHOP—WEIGHT TRAINING AND CONDITIONING
The weight training workshop will include lectures and demonstrations in the following areas: anatomy, physiology and kinesiology of muscle; effect of weight training on the human body and on the individual; weight training terms and exercises; types of weight training programs including weight training for athletics; functional isometric program and the competitive weight lifting program. Recent research in weight training methods and programs will be studied. Three units. June 21 -July 2. Dr. V. Enos.

5911. WORKSHOP IN THE ADMINISTRATION AND COACHING OF INTERSCHOLASTIC FOOTBALL
The workshop will deal primarily with administration and organization of a high school football program. Areas covered will include pre-season planning, in-season planning, and post-season planning. The course will also deal with practice plan, scouting procedures, offensive and defensive theories and fundamental drills. Three units. July 5-16. Dr. V. Enos.

5912. WORKSHOP IN THE ADMINISTRATION AND COACHING OF INTERSCHOLASTIC BASEBALL

5913. WORKSHOP—ELEMENTARY SCHOOL PHYSICAL EDUCATION

RECREATION

1000. NATURE AND SCOPE OF RECREATION
The nature, scope, and significance of recreation, including historical developments; organizational patterns in community recreation. Four units.

4800. TRENDS AND PROBLEMS IN RECREATION
A study of selected trends and problems in recreation, with emphasis on the influence of changing patterns of leisure in contemporary society. Three units.

5000. INTERNSHIPS
Half-time assignment to a public, private or specialized agency (hospital, industry, etc.), under supervision of agency representative and major adviser. Prerequisites: Departmental approval and concurrent registration in Rec. 5001. Six units.

5001. INTERNSHIP SEMINAR
Consideration of problems related to Internship experiences. Prerequisite: concurrent registration in Sec. 5000. Two units.

5002. INTERNSHIP II
Half-time assignment to a public, private or specialized agency (hospital, industry, etc.), under supervision of agency representative and major adviser. Prerequisites: Departmental approval and Rec. 5000 (may be taken concurrently). Eight units.
DIVISION OF
HUMANITIES

ENGLISH

1001. EXPOSITORY WRITING
The theory and practice of expository writing. Three units.

1002. EXPOSITION AND RHETORIC
The theory and practice of expository writing. Three units.

1010. INTRODUCTION TO LITERATURE
Studies in prose fiction, verse, and the drama. Five units.

1113. INTRODUCTION TO FICTION
Elements of fiction: a study of plot, characterization, language, and theme. Five units.

1250. READINGS IN SHAKESPEARE
Exposition and discussion, including historical and critical perspectives, of selected plays by Shakespeare. Not open to English majors. Five units.

3020. ADVANCED EXPOSITORY WRITING
Expository writing and analysis in relation to traditional and contemporary theories of composition. Four units.

3250. INTRODUCTION TO SHAKESPEARE
Techniques and conventions of the Elizabethan theater; Shakespeare's comedies, histories and tragedies. Four units.

3400. WORDSWORTH TO SHAW
Romantic, Victorian, and fin de siecle poetry and prose; the novel; the drama. Four units.

3650. CONTEMPORARY AMERICAN LITERATURE
Major trends in American literature from World War I to the present. Four units.

3703. WORLD LITERATURE III
Selected writings from the great cultures of the modern world. Four units.

4040. MODERN ENGLISH GRAMMAR
Review of traditional grammar; overview of modern linguistic theories. Five units.

4300. STUDIES IN RESTORATION AND EIGHTEENTH CENTURY LITERATURE
Intensive study of the inception and development of the English novel during the Restoration and Eighteenth century. Four units.

4850. INTRODUCTION TO THE NOVEL
Intensive study of selected novels. Maximum total credit six units. Three units.

FOREIGN LANGUAGES

FRANK

1001. ELEMENTARY FRENCH
Introduction to the reading, writing, understanding, and speaking of French. Four units.

2001. INTERMEDIATE FRENCH
Continuation of 1003, with increased emphasis on the reading and writing of French. Prerequisite: French 1003. Four units.

4101. CONTEMPORARY FRENCH LITERATURE
French fiction, poetry, and criticism from the mid-1880's to the present. Prerequisite: French 2003. Four units.

SPANISH

1001. ELEMENTARY SPANISH
An audio-lingual approach to Spanish, designed to give students skill in understanding, speaking, reading and writing the language. No prerequisite. Four units.

2001. INTERMEDIATE SPANISH
A continuation of Sp. 1003 with increased emphasis on audio-lingual facility, written composition and collateral reading. Prerequisite: Sp. 1003 or consent of instructor. Four units.

2101. SPANISH CONVERSATION
Practical application of Spanish in present-day experiences. Spanish sounds and intonations; vocabulary building. Prerequisite: Sp. 1003 or consent of instructor. Three units.

4920. DGS: CERVANTES' DON QUIXOTE
A study of the scope and meaning of this world literature masterpiece in the context of the social and cultural background of the 16th and 17th centuries France. Four units.

4921. INTERMEDIATE SPANISH FOR ELEMENTARY TEACHERS
Class conducted largely in Spanish. Applied linguistic for the elementary teacher and methodology with use of dialogue and story approach. Continuation of elementary Spanish. Can be taken concurrently with Sp. 4920. Four units. (Summer Session)

5102. SPANISH LANGUAGE AND METHODS FOR ELEMENTARY TEACHERS
Continuation of 5101. Prerequisite: Sp. 5101 or consent of instructor. Three units.

HISTORY

1101. HISTORY OF THE UNITED STATES TO 1865
A survey of the development of the American nation from colonial times to the close of the Civil War. (With Hist. 1102 meets statutory requirements in U.S. History and American Institutions.) Four units.

1102. HISTORY OF THE UNITED STATES SINCE 1865
A survey of American history from the Civil War to the present. (With Hist. 1101 meets statutory requirements in U.S. History and American Institutions.) Four units.
2001. INTRODUCTION TO EUROPEAN HISTORY
A general introduction to European History from Ancient Mediterranean times to the Renaissance. Four units.

3400. AMERICAN HISTORY
Political and social history of the United States from colonial times to the present. A survey of the transformation of an agrarian society into a complex industrial-urban order. (Satisfies statutory requirement in U.S. history.) Four units. (Summer Quarter and Summer Session)

3510. HISTORY OF CALIFORNIA
California history from early Spanish occupation to the present, emphasizing the influence of geography, natural resources, and a growing population. Satisfies requirement in California state and local government. Four units. (Summer Quarter and Summer Session)

4160. EUROPE IN THE 19TH CENTURY
From Waterloo to Sarajevo. Development of dominant ideologies. Four units.

4180. EUROPE IN THE 20TH CENTURY
The transformation of traditional European institutions and values in the century of total war. Four units.

4413. RECENT UNITED STATES HISTORY
The United States from 1900 to the present. The Progressive movement, World War I, and the complex problems of the nation as a leading power in the 20th century. Four units.

4512. INTELLECTUAL HISTORY OF U.S. SINCE 1865
The growth of American thought and social patterns of the United States since 1865. Four units.

PHILOSOPHY

1000. INTRODUCTION TO LOGIC
Introduction to traditional formal logic and to the elementary principles of symbolic logic. Four units.

2000. INTRODUCTION TO PHILOSOPHY
Representative interpretations of man's place in the universe, studied through selections from the writings of the great philosophers. Five units.

3001. HISTORY OF WESTERN PHILOSOPHY: ANCIENT AND MEDIEVAL PERIOD
Great philosophical systems and persistent problems in the history of ideas. Four units.

3101. HISTORY OF EASTERN PHILOSOPHY: CLASSICAL INDIAN PHILOSOPHY
Survey of philosophical systems of India and the Far East. Four units.

DIVISION OF SCIENCE
AND MATHEMATICS

ANATOMY AND PHYSIOLOGY

3301. ANATOMY AND PHYSIOLOGY
Introduction to structure and function of human systems. Prerequisites: General biology or zoology. Organic chemistry recommended; 3301 prerequisite to 3302. 3 hrs. lect., 3 hrs. lab. Four units each.

ASTRONOMY

1000. DESCRIPTIVE ASTRONOMY
A nonmathematical astronomy with emphasis on aspects of interest to the prospective or in-service teacher. 5 hrs. lect. Five units. (Summer Session)

BIOLOGY

1000. PRINCIPLES OF BIOLOGY
Fundamental structures and functions of living organisms, including cellular organization, nutrition, respiration and photosynthesis, control mechanisms, reproduction, heredity, and evolution. Not open to students having credit for a college course in general biology, botany or zoology. 4 hrs. lect., 3 hrs. lab. Five units.

3300. MICROBIOLOGY
The general biology of major groups of microorganisms including their morphology, metabolism, reproduction, genetics, and ecology. Prerequisites: General biology or botany and zoology, general chemistry; organic chemistry recommended. 4 hrs. lect., 6 hrs. lab. Six units.

3500. EVOLUTION
Historical development of theories on the origin of species, the impact of 20th Century genetics on evolutionary theory; with consideration of the course of evolution. Prerequisite: Genetics. 3 hrs. lect. Three units.

4220. MARINE BIOLOGY
A study of local marine organisms with emphasis on structural and functional adaptations to the sea as a specialized environment. Prerequisite: General biology, or zoology and botany. 2 hrs. lect., 3 hrs. lab, field trips. Three units.

BOTANY

1001. GENERAL BOTANY
An introduction to the fundamental principles of plant life, with major emphasis on the structure, development, and function of seed plants. Prerequisites: Biol. 1000 or equivalent. 2 hrs. lect., 3 hrs. lab. Three units.

4300. PLANT TAXONOMY
Study of the principles of plant taxonomy. Field and laboratory studies of native seed plants. Prerequisite: General botany or equivalent. 2 hrs. lect., 6 hrs. lab., field trips. Four units.
CHEMISTRY

1100. INTRODUCTORY CHEMISTRY
An elementary course covering the fundamental principles of general chemistry. Primarily a general education course for non-science majors. Does not apply as subject credit for majors and minors in the Division of Science and Mathematics. Prerequisite: satisfactory score on math fundamentals test. 3 hrs. lect., 6 hrs. lab., discussion. Five units.

1103. GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS
Fundamental principles of chemistry with emphasis on inorganic compounds. Qualitative analysis is begun during the second quarter. Prerequisites: Satisfactory performance in H.S. chem., two years of H.S. math.; H.S. physics recommended. Placement examination covering H.S. chem. and algebra to determine eligibility; (Chem. 1101 is prerequisite to Chem. 1102; Chem. 1102 is prerequisite to Chem. 1103.) 3 hrs. lect., 6 hrs. lab., problem session. Five units each.

3301. ORGANIC CHEMISTRY
An introduction to general theory of organic chemistry and the chemistry of aliphatic, aromatic and heterocyclic compounds. Emphasis on basic principles and laboratory experience in basic techniques and synthesis. Prerequisite: Chemistry 1103. (Chem. 3301 is prerequisite to Chem. 3302, and Chem. 3302 is prerequisite to Chem. 3303. Students with previous credit in an introductory survey course receive only 3 units of credit for Chem. 3301.) 3 hrs. lect., 6 hrs. lab. Five units each.

CONSERVATION

4380. CONSERVATION OF NATURAL RESOURCES
Interrelationships of soils, water, minerals, forests, grasslands, and wildlife; applied ecology in the wise use of natural resources. Prerequisite: A basic course in biology and in physical science. 5 hrs. lect. Five units. (Summer Session)

GEOLOGY

1101. PHYSICAL GEOLOGY
An elementary study of the earth, including materials, structure, internal conditions and physical and chemical processes. Prerequisite: Geol. 1102 must precede or be taken concurrently. 3 hrs. lect., 1 hr. discussion-quiz. Four units.

3201. HISTORICAL GEOLOGY
Evolution of continents, oceans, mountain systems and other features of the earth; development of animals and plants. Prerequisite: Geol. 1101 or equivalent plus Geol. 3202 (may be taken concurrently). 3 hrs. lect., 1 hr. discussion-quiz. Four units.

N.S.F. INSTITUTE IN EARTH SCIENCE
June 28-August 13

GEOL 5101. PRINCIPLES OF EARTH SCIENCE
Five units.

GEOL 5102. EARTH HISTORY AND PALEONTOLOGY
Five units.

The above courses are being offered in the Summer Institute for secondary school teachers. For complete information regarding participation in the Institute write: Dr. Jon Cummings, Director.
1110. ELEMENTS OF MATHEMATICAL LOGIC
The concept of set. Operations on sets. Relations and functions. The mathematics of declarative sentences. The nature of proof. Will meet general education requirement in mathematics. Four units. (Summer Quarter and Summer Session)

1301. BASIC ANALYSIS
A modern freshman mathematics course combining elements of college algebra and analytic trigonometry with an axiomatic development of the complex number system. Designed to prepare students for standard analytic geometry and calculus sequence. Prerequisite: Intermediate algebra and trigonometry or acceptable score on department placement test. Five units.

1302, 2301, 2302. ANALYTIC GEOMETRY AND CALCULUS
Analytic geometry, differential and integral calculus, with applications. Each course has its predecessor(s) as prerequisite(s). Four units each. Prerequisite for 1302: Math. 1301 or intermediate algebra, trigonometry and acceptable score on department placement test.

2300. REVIEW OF CALCULUS
Comprehensive review of calculus for students who need a refresher course before proceeding to more advanced courses in mathematics. Prerequisite: Math. 2303 or equivalent. Three units. (Credit cannot be granted toward a mathematics major or a bachelor's degree.)

2301, 2302. SEE MATH. 1302

3000. CONCEPTS OF MATHEMATICS
For students planning not to specialize in mathematics or related sciences. Elementary concepts from topics such as set theory, algebra, geometric structures, symbolic logic, computer mathematics. Designed to satisfy general education requirement in mathematics for non-majors. Five units. (Summer Quarter and Summer Session)

3101. FOUNDATIONS OF MATHEMATICS
The nature of mathematics; mathematical logic; axiomatic bases for numbers and number systems; bases of geometrics. Prerequisite to each: Calculus. Four units each.

3121. INTRODUCTORY LINEAR ALGEBRA
Linear transformations and matrices. Algebra of matrices and vectors. Determinants and systems of linear algebraic equations. Applications to geometry, physics, etc. Prerequisites: Two courses in calculus or consent of instructor. Five units.

3311. DIFFERENTIAL EQUATIONS I
First order differential equations and a beginning study of linear differential equations with applications. Prerequisite: Math. 2303. (Not open for credit to students having credit for Math. 3320 or equivalent.) Three units.

3700. INTRODUCTION TO DIGITAL COMPUTER PROGRAMMING
Study of the process of coding of problems for an automatic digital computer with some emphasis on the logical aspects. Prerequisite: One year of college mathematics or consent of instructor. Four units. (Summer Quarter and Summer Session)

4021. STRUCTURES OF ARITHMETIC, ALGEBRA AND GEOMETRY
Definitions, properties, and applications of the various subsets of the set of real numbers; numeration systems; properties of and operations on sets; modular arithmetic; mathematical sentences. Prerequisite: Satisfaction of general education requirement in mathematics and a knowledge of high school algebra and geometry. Four units.

4340. INTRODUCTION TO COMPLEX VARIABLES
Introduction to theory of functions of complex variables. Prerequisite: Math. 3320. Five units.
5101. NUMBERS AND NUMBER SYSTEMS
Study of postulates for, properties of, and operations with the natural and whole numbers, integers, rational and real numbers, with an introduction to complex numbers; the nature of proof. 3 units. (Summer Session)

6120. ALGEBRAIC STRUCTURES

MATHEMATICS EDUCATION

4020. TEACHING MATHEMATICS IN ELEMENTARY SCHOOLS
A study of the curriculum, teaching methods and content in elementary school mathematics. Prerequisite: Math. 3000 or Math. 5020 or equivalent, Math. 4021. Three units. (Summer Quarter and Summer Session)

NATURE STUDY

3392. NATURE STUDY
Natural history in the field and laboratory with topics from rocks and minerals, physiographic land forms, fossils, map reading, meteorology, astronomy, early Spring plants and animals. Prerequisite: Basic course in physical science. 2 hrs. lect., 6 hrs. lab. and/or field trips. Four units. (Summer Session)

PHYSICAL SCIENCE

1340. PRINCIPLES OF PHYSICAL SCIENCE
Fundamental principles of physics and chemistry with application to astronomy, meteorology and geology. Not open to students having credit for lower-division courses in chemistry or physics. Prerequisite: High school algebra. 4 hrs. lect., 3 hrs. lab. and problem session. Five units.

1400. WEATHER AND CLIMATE
Introduction to the atmosphere, physics of the atmosphere, physical causes of climate; structure and circulation, weather and weather forecasting; emphasis on aspects of interest to the prospective or in-service teacher. Prerequisite: Phys. Sci. 3340 or high school physics. Four units. (Summer Session)

PSYCHOLOGY

2000. GENERAL PSYCHOLOGY I
An introduction to the scientific study of basis processes underlying human and animal behavior: sensation and perception, learning and thinking, motivation and emotion. Four units.

2010. GENERAL PSYCHOLOGY II
A survey of method, content, and theory in the scientific study of behavior. Selected problems of psychology will be viewed in terms of the experiments by which they have been investigated. Prerequisite: Psy. 2000. Four units.

3100. EXPERIMENTAL PSYCHOLOGY I
A laboratory course on the development, design, and execution of psychological experiments and the analysis of data. Problems of psychophysics, sensory and perceptual function, learning, transfer, and forgetting will be dealt with in terms of experimental methodology. Prerequisites: Psy. 2010, Stat. 4001. Five units.

4200. CONDITIONING AND LEARNING
Basic principles and results of conditioning and learning experimentation. Prerequisite: Psy. 3100. Four units.

4340. PERCEPTION
A systematic review of experiments: studies in perceiving the physical world. Perception of size, shape, distance, color and other characteristics of objects. Theories of perception. Prerequisite: Psy. 3100. Four units.

4410. BEHAVIOR PATHOLOGY

4610. PSYCHOLOGY OF PERSONALITY
Critical review of method, theory and content in the study of personality. Historical development of the field with attention to recent applications of scientific method to problems of personality. Prerequisite: Psy. 5410 or equivalent. Four units. (Summer Session)

4802. RESPONSE PROCESSES AND PSYCHOPHYSICAL METHODS LABORATORY
Selected experiments from psychophysics, perception, vision, audition and olfaction. Experiments will also be designed, executed, analyzed and reported. May be repeated up to three times for credit. Prerequisite: Psy. 3100 and consent of instructor. One-two unit. 3-6 hr. lab.

SCIENCE EDUCATION

4020. SCIENCE IN THE ELEMENTARY SCHOOL
Discussions, techniques, projects appropriate to the teaching of science in the elementary schools. Prerequisite: Completion of general education requirement in science. 2 hrs. lect., 3 hrs. lab. Three units. (Summer Quarter and Summer Session)

STATISTICS

1500. ELEMENTS OF PROBABILITY AND STATISTICS
Descriptive statistics; measures of central tendency, variation, correlation. Elementary discrete probability, sampling and sampling distributions. Tests of statistical hypothesis. Role of statistics in scientific research. Prerequisite: One year of high school algebra. 5 units.

ZOOOLOGY

1001. GENERAL ZOOLOGY
The comparative anatomy, physiology and behavior of representative vertebrate types adapting them for life in the major environments. Prerequisite: Biol. 1000 or equivalent. 2 hrs. lect., 3 hrs. lab. Three units.

3101. VERTEBRATE ZOOLOGY: COLDBLOODS
The natural history of fishes, amphibians and reptiles including biology, morphology, classification, identification and techniques of collecting and preserving specimens with emphasis on western forms. Prerequisite: General zoology or equivalent. 2 hrs. lect., 6 hrs. lab., field trips. Four units.
DIVISION OF SOCIAL AND BEHAVIORAL SCIENCE

ANTHROPOLOGY

1000. INTRODUCTION TO ANTHROPOLOGY
A survey and analysis of man and culture; including archaeology, the physical distinctiveness and evolution of man, races, the influence of language upon culture, and the nature of culture. 3 hrs. lect., 1 hr. discussion. Four units. Offered each quarter.

3000. ANTHROPOLOGY IN THE MODERN WORLD
The relevance of anthropology to contemporary world problems and the great issues of mankind. An advanced level introduction to culture anthropology; not open for credit to students who have taken anthropology 1000 or 2300 or equivalent. 3 hrs. lect., 1 hr. discussion. Four units. (Summer Session)

3500. NORTH AMERICAN INDIANS
Prehistory of the Indians of North America together with some basic principles and methods of archaeology. Prerequisite: Anthro. 2000 or consent of instructor. Four units.

3575. PEOPLES OF AFRICA SOUTH OF SAHARA
Four units.

GEOGRAPHY

1000. INTRODUCTION TO GEOGRAPHY
Aims and methods of geography; analysis of interactions among the physical, biotic, and cultural components which contribute to the regional patterns of the earth’s surface. 3 hrs. lect., 2 hrs. activity. Not open to those having Geography 2100 or 2300. Four units.

2300. PRINCIPLES OF CULTURAL GEOGRAPHY
Study of the basic elements of cultural geography, including the types of settlement, land-use patterns, population densities. Prerequisite: Geog. 2100. Required for geography core in Social Science Area major and for geography teaching minor. Four units.

3000. WORLD LAND PROBLEMS
Effect of man’s intentional and unintentional modification of his physical environment; the importance of his changing attitudes toward natural resources and landscape; relation of these attitudes to soil, water and air modification and deterioration. Four units.

3510. GEOGRAPHY OF MIDDLE AMERICA
A study of the landforms, climate, vegetation and cultural geography of Latin America. Prerequisite: Geog. 2100 or 2300. Four units.

3550. GEOGRAPHY OF SOUTHEAST ASIA
Study of the Philippines, Indonesia, Malaysia and the mainland countries of Viet Nam, Laos, Cambodia, Thailand and Burma. Prerequisite: Geog. 1000 or 2300 or 3000; or previous course in history or anthropology on the region; or residence in region and consent of instructor. Four units.

JOURNALISM

3211. COLLEGE NEWSPAPER LABORATORY
A laboratory experience with instruction. Class members constitute the staff of the college newspaper. Prerequisite: A college journalistic writing course or consent of instructor. 2 to 6 hrs. lab. One to three units. May be repeated for total of nine units.

3700. HISTORY AND DEVELOPMENT OF THE MASS MEDIA
A study of the historical development of journalism, particularly in the U. S., with special attention to radio and other mass media which have entered the news and information field; their relation to the development of society. No prerequisite. Four units.

4700. PUBLIC OPINION AND THE MASS MEDIA
Critical study of the influence of the mass media upon public opinion; propaganda techniques and their uses; mechanics of polling; examination of editorial policies of representative publications. Four units.

POLITICAL SCIENCE

1201, 1202. AMERICAN POLITICAL INSTITUTIONS
Development of political institutions and ideals in the U. S. from the Puritan community to date. The development of such ideals as freedom, equality and democracy; development of branches of government, political parties and the changing role of government. Meets code requirement of American ideals, U. S. Constitution and California government. Prerequisite to 1202 is 1201. Four units each, total eight units.

2101. INTRODUCTION TO GOVERNMENT
Analysis of political society—legitimacy and social control; relationship of individual to individual and individual to government; concept of state and the nature of government; basic ideas of competing political systems; forms of government; regional and international organizations and relations among states. Four units.

3100. AMERICAN NATIONAL, STATE AND LOCAL GOVERNMENT
Studies of relationships of various governments in the United States; the organization, processes and problems of national, state and local government. Meets requirement in the U. S. Constitution, and in California state and local government. Four units. (Summer Quarter and Summer Session)

3112. AMERICAN LEGISLATURES AND LEGISLATION
Analysis of the operation and functioning of Congress, state legislatures, local councils and boards with particular attention to California; pressure groups; committee systems; executive-legislative-judicial relations; selected reform proposals. Four units.

3210. COMPARATIVE GOVERNMENT
Analysis of comparative political systems: Dictatorships and democracies; presidential and parliamentary systems; federal and unitary: multi-party, two-party and single-party systems; individual rights and duties in varying systems. Four units.

4222. GOVERNMENT AND POLITICS OF THE USSR
An analysis of the political ideas and institutions of the USSR: Philosophical foundations; role of Communist Party; organization and functions of government; place of the individual in Soviet Society. Four units. (Summer Sessions)

4310. POLITICAL PARTIES AND PRESSURE GROUPS
An analysis of political parties and pressure groups: History; organization and operation; influence in nominations and elections and upon executive legislative branches of national, California state and local government. Four units.

4505. AMERICAN FOREIGN POLICY
An analysis of current American foreign policies toward other nations as related to the Good Neighbor Policy, security, containment, and liberation; the problem of foreign policy in American democracy. Four units.

4730. AMERICAN POLITICAL THOUGHT
Analysis of the dominant political theories in the development of American political thought, within the larger framework of American history and social institutions. Impact of these ideas upon contemporary America. Four units.
SOCIOLOGY

2000. INTRODUCTION TO SOCIOLOGY
The development of culture and personality with emphasis on the impact of
groups and institutions on man's social behavior. Four units.

2010. SOCIAL PROBLEMS
Study of social problems in such areas as family life, intergroup and intercultural
relations, mental and physical health, crime, economy, government, conservation
of natural resources and education. Prerequisite: Soc. 2000 or equivalent. Four units.

3310. CURRENT SOCIOLOGICAL THEORY
Study and critical analysis of the ideas of major sociological thinkers such as
Comte, Durkheim, Cooley, Weber, Mead and others. Prerequisite: Soc. 2000; 2010
or equivalent. Four units.

3410. SOCIOLOGY OF THE FAMILY
Study of the family as a social institution with emphasis on marriage and family
problems peculiar to modern American urban society. Prerequisite: Soc. 2000; 2010
or equivalent. Four units.

3710. SOCIAL LEGISLATION AND PUBLIC POLICY
The study of the social philosophy of democratic processes as related to legis­
lation affecting social services. The impact of changing cultural values on public
policy. Prerequisite: Soc. 2000; 2010 or equivalent. Four units.

3730. JUVENILE DELINQUENCY
Nature and extent of juvenile crime in the United States; relationship of delin­
quency to socio-economic, racial, and nationality background; social forces in the
causation of deviant behavior; study and evaluation of trends in punishment, treat­
ment, and rehabilitation of juvenile offenders. Four units. (Evening Class) (Summer
Session)

3910. COMPARATIVE SOCIETY
Structure of the social organization and institutions in different cultural contexts
with particular reference to Latin American Society. Comparative study of historical
and current differences in Latin American and North American societies as related
to ideological, technological and developmental processes. Four units.

3920. CHILD WELFARE
Historical background and current trends toward establishing the rights of chil­
dren to care and protection. Emphasis upon the relationship between urban-industrial
society and the development of public and private responsibility for programs in­
cluding economic, corrections, adoptions, education, foster care, mental and physical
health. Four units. (Summer Session)

5000. TEACHING SOCIAL SCIENCE IN THE SECONDARY SCHOOL
Curriculum, methods, audio-visual techniques, and content in social sciences,
grades 7 through junior college. Prerequisite: consent of instructor. Three units.

COLLEGE ADMINISTRATION

EXECUTIVE
President ........................................... Fred F. Harcleroad
Dean of Instruction ............................. Albert R. Lepore
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Dean of Student Services ...................... Lyle D. Edmison
Business Manager .............................. Earle W. Nordstrom
Assistant to the President ..................... Vincent K. Shaudys
Director of Institutional Studies .............. Robert E. Bates
Director of Public Affairs and College Relations Dean W. Detweiler

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Associate Dean—Summer Quarter and Summer Session Forrest L. Mayer
Associate Dean—Curriculum ..................... Jon S. Peters
Associate Dean and Dean of Admission and Records Tudor Jones
Assistant Dean—Scheduling ..................... H. Duane Heath
Head, Division of Business and Economics Virgil Salera
Head, Division of Creative Arts ............... Karl D. Ernst
Head, Division of Education ................... Lewie W. Burnett
Head, Division of Humanities ................. Arnold P. Biella
Head, Division of Science and Mathematics P. Victor Peterson, Jr.
Head, Division of Social and Behavioral Science Charles W. Merrifield
Director of Learning Resources .............. Robert O. Hall
Director of Libraries .......................... Floyd R. Erickson

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Consulting Architect ............................
Chief of Plant Operations ..................... Allen P. Rodda

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Associate Dean and Dean of Men .......... Howard A. Slatoff
Associate Dean and Dean of Women ......... Joan M. Seavey
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Director of Counseling Services .......... Donald Strong
Director of Testing Services ................. Donald J. Brown
Director of Placement Services ............. Eugene Clark
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Business Manager . . . . . . . . Earle W. Nordstrom  
Accounting Officer . . . . . . . . Fred Okamoto  
Personnel Coordinator, Financial Office . . . . . . . . Richard Quey  
Purchasing Coordinator . . . . . . . . William Wallace  
Corporation Manager . . . . . . . . Stan Clark

**INSTITUTIONAL STUDIES**

Director of Institutional Studies . . . . . . . . Robert E. Bates  
Supervisor, Data Processing Service . . . . . . . . Terry B. Clark  
Director, Office of Institutional Studies . . . . . . . . Robert E. Bates  
Director, Instructional Computation Center . . . . . . . . Thomas H. Southard

**PUBLIC AFFAIRS AND COLLEGE RELATIONS**

Director of Public Affairs and College Relations . . . . . . . . Dean W. Detweiler  
Burdette A. Peterson  
Darrell M. Gray

**FACULTY OF THE SUMMER QUARTER AND SESSION**

Allison, Harry E. . . . . . . . . . Professor of Business Administration  
Barclay, James R. . . . . . . . . . Associate Professor of Education  
Barrett, G. Harold . . . . . . . . . Assistant Professor of Speech and Drama  
Black, James M. . . . . . . . . . . Assistant Professor of Art  
Bocak, Richard E. . . . . . . . . . Assistant Professor of Chemistry  
Brown, Donald J . . . . . . . . . Director of Testing Services; Assistant Professor of Education  
Brown, Jerome F. . . . . . . . . . Assistant Professor of History  
Bryant, Jerry H . . . . . . . . . . Assistant Professor of English  
Cambus, John . . . . . . . . . . Assistant Professor of Speech and Drama  
Carlson, Ruth K . . . . . . . . . . Associate Professor of Education  
Carter, Ernest J . . . . . . . . . . Assistant Professor of English  
Collier, Lewis A . . . . . . . . . . Assistant Professor of English  
Comer, James L . . . . . . . . . . Coordinator of Intramural and Intercollegiate Athletics; Associate Professor of Physical Education  
Conner, Jack E . . . . . . . . . . Professor of English  
Cory, Norman R . . . . . . . . . . Assistant Professor of Music  
Costy, James O . . . . . . . . . . Assistant Professor of Speech and Drama  
Crowell, Jackson . . . . . . . . . . Assistant Professor of Political Science  
Cummings, Jon C . . . . . . . . . Assistant Professor of Geology  
Davies, Gordon F . . . . . . . . . . Associate Professor of Education  
Davis, John K . . . . . . . . . . Assistant Professor of Art  
Descousis, Paul M . . . . . . . . . Associate Professor of Foreign Languages  
DeVries, John E . . . . . . . . . . Professor of Chemistry  
Duhmke, Horst C . . . . . . . . . . Assistant Professor of Political Science  
Ellsworth, John W . . . . . . . . . Assistant Professor of Political Science  
Einos, V. Rodney . . . . . . . . . . Assistant Professor of Physical Education  
Pickas, Ernest T . . . . . . . . . . Assistant Professor of Mathematics  
Fox, Frederick A . . . . . . . . . . Assistant Professor of Music  
Frederick, Peter J . . . . . . . . . . Instructor of History  
Fry, Hilary G . . . . . . . . . . Special Assistant to President; Professor of Social Science  
Geiser, Peter . . . . . . . . . . Chairman, Department of Sociology; Professor of Sociology  
Giles, John C . . . . . . . . . . Assistant Professor of Physics  
Goldstein, Norman N., Jr . . . . . Assistant Professor of Science  
Gordon, Wesley D . . . . . . . . . . Assistant Professor of Nature Study  
Goethert, John A . . . . . . . . . . Associate Professor of Journalism  
Grillos, Steve J . . . . . . . . . . Professor of Biological Science  
Groody, Tom C . . . . . . . . . . Professor of Biological Science  
Guthrie, Andrew . . . . . . . . . . Chairman, Department of Physics; Professor of Physics  
Ham, Edward B . . . . . . . . . . Professor of Foreign Languages  
Hancock, John D . . . . . . . . . . Associate Professor of Mathematics  
Heath, H. Duane . . . . . . . . . . Assistant Dean of Instruction; Professor of Biological Science  
Hendrickson, Dale . . . . . . . . . . Assistant Professor of Education  
Hergert, Loretta . . . . . . . . . . Assistant Professor of Physical Education  
Hogan, Florence . . . . . . . . . . Visiting faculty Boston University; Assistant Professor of Education  
Jessner, Peter Hans . . . . . . . . . Assistant Professor of Mathematics  
Joyal, Arnold . . . . . . . . . . Professor of Education  
Krafchick, Marcelline . . . . . . . . Assistant Professor of English  
LePell, Coohan . . . . . . . . . . Assistant Professor of Art  
Lewis, Mark F . . . . . . . . . . Assistant Professor of Psychology  
Marsh, Jack N . . . . . . . . . . Coordinator of Secondary Education; Professor of Education  
Martin, Robert C . . . . . . . . . . Chairman, Department of Speech and Drama; Professor of Speech and Drama  
Mathews, Alfred R., Jr . . . . . . . . Assistant Professor of Physical Education  
McCinnis, Samuel M . . . . . . . . Assistant Professor of Biology
McHugh, Walter J. .................................. Associate Professor of Education
Monson, Richard S. .................................. Assistant Professor of Chemistry
Morehouse, Wade A. .................................. Assistant Professor of Business Administration
Niepoth, Edward W. .................................. Chairman, Department of Recreation
Associate Professor of Recreation
Ovalle, Joseph F. .................................. Assistant Professor of Foreign Languages
Pagenhart, Thomas H. .......................... Associate Dean of Instruction; Professor of Education
Peters, Jon ............................................. Professor of Geography
Peterson, George H. .................................. Assistant Professor of Biological Science
Peterson, P. Victor, Jr. .............................. Head, Division of Science and Mathematics
Purby, G. Richard ............................. Professor of Mathematics
Purvis, Colbert T. .................................. Professor of Mathematics
Sawrey, William L. ............................. Acting Chairman, Department of Psychology;
Professor of Psychology and Statistics
Segal, Morley .................................. Assistant Professor of Social Science and Education
Shaudys, Vincent K. .............................. Administrative Assistant to President;
Professor of Geography
Shriner, William C. .............................. Coordinator of Field Experience; Professor of Education
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Soldahl, Thomas A. .................................. Associate Professor of Education
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Professor of Management
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Associate Professor of Psychology
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Professor of Anthropology and Geography
Wheeler, Lawrence .......................... Assistant Professor of Psychology
White, Robert M. .................................. Chairman, Department of Counseling and Pupil Personnel;
Professor of Education
Whitehorn, Eugene D. .......................... Coordinator Materials Preparation Services;
Associate Professor of Education
Whitney, Robert C. .................................. Associate Professor of Physical Science
Woods, Marion C. .............................. Professor of Chemistry
Woland, Charles W. ............................. Associate Professor of Education
Wren, Dale P. .................................. Professor of Business Administration
Yeager, Herman V. .................................. Associate Professor of Education
Zeitlin, Harry .................................. Associate Professor of Education

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721 Capitol Avenue,
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Chancellor of the California State Colleges
2930 W. Imperial Hwy
Inglewood 90303

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Appointments are for a term of eight years expiring March 1 on dates in parentheses. Names are listed in order of accession to the Board.

14 Montgomery St., San Francisco 94104

Donald M. Hart, B.A. (1969)
2220 Pine St., Bakersfield 93302

Thomas L. Pitts (1966)
995 Market St., Rm. 810, San Francisco 94103

9220 Sunset Blvd., Los Angeles 90046

Paul Spencer, B.A. (1969)
P. O. Box 145, San Dimas 91773

Theodore Meriam, A.B. (1971)
P. O. Box 370, Chico 95927

1680 Hedding St., San Jose 95113

John E. Carr, B.A. (1965)
611 Lido Park Dr., Newport Beach 92660

Mrs. Philip Conley, B.A. (1972)
3729 Huntington Blvd., Fresno 93702

E. Guy Warren, B.A. (1965)
P. O. Box 59, Hayward 94541

Daniel H. Ridder, B.A. (1967)
604 Pine St., Long Beach 90801

George D. Hart, A.B. (1967)
111 Sutter St., San Francisco 94104
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213 — 757-5161

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Glenn S. Dumke

Executive Vice Chancellor
Raymond A. Rydell

Vice Chancellor, Business Affairs
John F. Richardson

Assistant Chancellor, Faculty and Staff Affairs
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Castro Valley
Berkeley
Oakland
Oakland
Pleasanton
San Leandro
Oakland
Fremont
Hayward
Piedmont
Hayward
Hayward

SUMMER QUARTER SCHEDULE
June 15 to August 31, 1965

<table>
<thead>
<tr>
<th>NO.</th>
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<tbody>
<tr>
<td>3901</td>
<td>1</td>
<td>Junior Symposium (Lect)</td>
<td>3</td>
<td>10:20-11:10</td>
<td>TTh</td>
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<tr>
<td>3901</td>
<td>1D</td>
<td>Junior Symposium (Disc)</td>
<td>0</td>
<td>11:15-12:05</td>
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<td>3901</td>
<td>2D</td>
<td>Junior Symposium (Disc)</td>
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<td>11:15-12:05</td>
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<td>3D</td>
<td>Junior Symposium (Disc)</td>
<td>0</td>
<td>10:25-11:15</td>
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<td>3901</td>
<td>4D</td>
<td>Junior Symposium (Disc)</td>
<td>0</td>
<td>10:25-11:15</td>
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<td>1801</td>
<td>1</td>
<td>Senior Symposium</td>
<td>3</td>
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BUSINESS AND ECONOMICS DIVISION

<table>
<thead>
<tr>
<th>NO.</th>
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<tr>
<td>2221</td>
<td>1</td>
<td>Principles of Accounting I</td>
<td>4</td>
<td>7:35-8:50</td>
<td>MWF</td>
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<tr>
<td>2221</td>
<td>1D</td>
<td>Principles of Accounting II</td>
<td>4</td>
<td>11:50-1:05</td>
<td>MWF</td>
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<tr>
<td>3111</td>
<td>1</td>
<td>Bus. and Econ. Statistics</td>
<td>4</td>
<td>8:00-9:40</td>
<td>Th</td>
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<tr>
<td>3200</td>
<td>1</td>
<td>Managerial Accounting</td>
<td>4</td>
<td>9:00-10:15</td>
<td>MWF</td>
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<tr>
<td>3400</td>
<td>1</td>
<td>Principles of Marketing</td>
<td>4</td>
<td>1:15-2:35</td>
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<tr>
<td>3420</td>
<td>1</td>
<td>Sales Analysis and Sales Mgt.</td>
<td>4</td>
<td>10:20-12:00</td>
<td>Th</td>
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<tr>
<td>3600</td>
<td>1</td>
<td>Principles of Management</td>
<td>4</td>
<td>2:40-3:55</td>
<td>MWF</td>
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<tr>
<td>3610</td>
<td>1</td>
<td>Personnel Management</td>
<td>4</td>
<td>9:00-10:15</td>
<td>MWF</td>
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<tr>
<td>3620</td>
<td>1</td>
<td>Industrial Administration</td>
<td>4</td>
<td>1:15-2:30</td>
<td>MWF</td>
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<tr>
<td>2301</td>
<td>1</td>
<td>Principles of Economics I</td>
<td>4</td>
<td>1:15-2:30</td>
<td>MWF</td>
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<tr>
<td>3000</td>
<td>1</td>
<td>Economics of the Bus. Firm</td>
<td>4</td>
<td>10:25-11:40</td>
<td>MWF</td>
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CREATIVE ART DIVISION

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<tr>
<th>NO.</th>
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<tbody>
<tr>
<td>1110</td>
<td>1</td>
<td>Introduction to Art</td>
<td>3</td>
<td>9:00-10:15</td>
<td>MWF</td>
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<tr>
<td>1110</td>
<td>2</td>
<td>Introduction to Art</td>
<td>3</td>
<td>7:25-8:50</td>
<td>MWF</td>
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<tr>
<td>1110</td>
<td>3</td>
<td>Introduction to Art</td>
<td>3</td>
<td>11:50-1:05</td>
<td>MWF</td>
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<tr>
<td>1130</td>
<td>1</td>
<td>Design—Three Dimensional</td>
<td>3</td>
<td>10:20-12:25</td>
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<tr>
<td>3211</td>
<td>1</td>
<td>Drawing</td>
<td>3</td>
<td>10:20-12:25</td>
<td>Th</td>
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<tr>
<td>3220</td>
<td>1</td>
<td>Painting</td>
<td>3</td>
<td>10:20-12:25</td>
<td>Th</td>
</tr>
<tr>
<td>4530</td>
<td>1</td>
<td>Sculpture</td>
<td>3</td>
<td>1:15-3:30</td>
<td>MW</td>
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<tr>
<td>4800</td>
<td>1</td>
<td>Arts in Contemporary Society</td>
<td>4</td>
<td>10:20-12:00</td>
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<tr>
<td>1008</td>
<td>1</td>
<td>Basic Musicianship (non-majors &amp; minors)</td>
<td>3</td>
<td>7:35-8:50</td>
<td>MWF</td>
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<tr>
<td>1211</td>
<td>1</td>
<td>Elementary Class Piano</td>
<td>1</td>
<td>4:05-5:20</td>
<td>MW</td>
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<tr>
<td>1212</td>
<td>1</td>
<td>Intermediate Class Piano</td>
<td>1</td>
<td>7:35-8:50</td>
<td>WF</td>
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<tr>
<td>2212</td>
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<td>Basic Orchestra Instr. (woodwind)</td>
<td>1</td>
<td>9:00-10:15</td>
<td>MW</td>
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<tr>
<td>2214</td>
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## EDUCATION DIVISION

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**Course approval required for Educ. 5262.**

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**Concurrent registration in Educ. 5262.**

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**SCIENCE AND MATHEMATICS DIVISION**

### Anatomy and Physiology

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†Course approved to meet the upper division General Education requirement.
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<td>MWF</td>
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**Physical Science**

<table>
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<tr>
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<th>DAY</th>
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<tbody>
<tr>
<td>1340</td>
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<td>Prin. of Physical Science</td>
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<td>9:00-10:15</td>
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</tr>
<tr>
<td>1340</td>
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<td>Prin. of Physical Science, Lab</td>
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**Physics**

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<tr>
<td>1000</td>
<td>1</td>
<td>Elements of Physics</td>
<td>4</td>
<td>9:00-10:15</td>
<td>MWF</td>
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<tr>
<td>2001</td>
<td>1</td>
<td>Introduction to Physics</td>
<td>4</td>
<td>10:20-11:45</td>
<td>TTh</td>
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<tr>
<td>2001</td>
<td>2</td>
<td>Introduction to Physics, Lab</td>
<td>0</td>
<td>2:15-3:15</td>
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</table>

**Science Education**

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<tbody>
<tr>
<td>4020</td>
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<td>Science in Elem. School</td>
<td>3</td>
<td>12:00-1:00</td>
<td>MW</td>
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<tr>
<td>4020</td>
<td>1L</td>
<td>Science in Elem. School, Lab</td>
<td>0</td>
<td>2:15-3:15</td>
<td>W</td>
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</table>

**Zoology**

<table>
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<tbody>
<tr>
<td>1001</td>
<td>1</td>
<td>General Zoology</td>
<td>3</td>
<td>1:15-2:05</td>
<td>MW</td>
</tr>
<tr>
<td>1001</td>
<td>1L</td>
<td>General Zoology, Lab</td>
<td>0</td>
<td>2:15-3:15</td>
<td>M</td>
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<tr>
<td>3101</td>
<td>1</td>
<td>Vertebrate Zool: Coldbloods</td>
<td>4</td>
<td>1:00-5:00</td>
<td>F</td>
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<tr>
<td>3101</td>
<td>1L</td>
<td>Vertebrate Zool: Coldbloods, Lab</td>
<td>0</td>
<td>8:00-12:00</td>
<td>TTh</td>
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**Mathematics**

<table>
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<tr>
<td>1110</td>
<td>1</td>
<td>Elems. of Math Logic</td>
<td>4</td>
<td>1:15-2:30</td>
<td>MWF</td>
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<tr>
<td>1301</td>
<td>1</td>
<td>Basic Analysis</td>
<td>5</td>
<td>9:00-1:15</td>
<td>MTWF</td>
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<tr>
<td>1302</td>
<td>1</td>
<td>Anal. Geom. and Calc.</td>
<td>4</td>
<td>7:35-8:50</td>
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<tr>
<td>2301</td>
<td>1</td>
<td>Review of Calculus</td>
<td>3</td>
<td>7:00-10:00</td>
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<tr>
<td>2301</td>
<td>2</td>
<td>Anal. Geom. and Calc. II</td>
<td>4</td>
<td>7:00-10:00</td>
<td>W</td>
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<tr>
<td>2302</td>
<td>1</td>
<td>Anal. Geom. and Calc. IV</td>
<td>4</td>
<td>7:35-8:50</td>
<td>W</td>
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<tr>
<td>3000</td>
<td>1</td>
<td>Concepts of Mathematics</td>
<td>5</td>
<td>10:25-11:40</td>
<td>MTWF</td>
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<tr>
<td>3101</td>
<td>1</td>
<td>Foundations of Math, I</td>
<td>4</td>
<td>10:25-11:40</td>
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<tr>
<td>3101</td>
<td>2</td>
<td>Introductory Linear Algebra</td>
<td>3</td>
<td>7:00-10:00</td>
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<tr>
<td>3301</td>
<td>1</td>
<td>Differential Equations</td>
<td>3</td>
<td>7:00-10:00</td>
<td>MWF</td>
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<tr>
<td>3700</td>
<td>1</td>
<td>Intro. to Dig. Comp. Prog.</td>
<td>4</td>
<td>1:15-2:30</td>
<td>W</td>
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<tr>
<td>4021</td>
<td>1</td>
<td>Struct. of Anth., Alg. and Geom.</td>
<td>4</td>
<td>11:50-2:05</td>
<td>MWF</td>
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<tr>
<td>4340</td>
<td>1</td>
<td>Intro. to Complex Vars.</td>
<td>5</td>
<td>9:00-10:00</td>
<td>Daily</td>
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<tr>
<td>4120</td>
<td>1</td>
<td>Algebraic Structures</td>
<td>5</td>
<td>4:30-6:10</td>
<td>MWF</td>
</tr>
<tr>
<td>4020</td>
<td>1</td>
<td>Teaching Math in Elem. Schools</td>
<td>3</td>
<td>8:00-9:00</td>
<td>W</td>
</tr>
<tr>
<td>1500</td>
<td>1</td>
<td>Elems. of Prob. and Stat.</td>
<td>5</td>
<td>10:25-11:40</td>
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<tr>
<td>1500</td>
<td>2</td>
<td>Student Teaching</td>
<td>5</td>
<td>10:25-11:40</td>
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**Psychology**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>2000</td>
<td>1</td>
<td>General Psychology I</td>
<td>4</td>
<td>9:00-10:15</td>
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<tr>
<td>2000</td>
<td>2</td>
<td>General Psychology I</td>
<td>4</td>
<td>1:05-2:30</td>
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<tr>
<td>2010</td>
<td>1</td>
<td>General Psychology II</td>
<td>4</td>
<td>8:00-9:40</td>
<td>TTh</td>
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<tr>
<td>4200</td>
<td>1</td>
<td>Conditioning and Learning</td>
<td>4</td>
<td>11:50-1:05</td>
<td>TTh</td>
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<tr>
<td>4340</td>
<td>1</td>
<td>Perception</td>
<td>4</td>
<td>1:15-2:30</td>
<td>MWF</td>
</tr>
<tr>
<td>4410</td>
<td>1</td>
<td>Behavior Pathology</td>
<td>4</td>
<td>10:20-12:00</td>
<td>TTh</td>
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<tr>
<td>4802</td>
<td>1</td>
<td>Responses Process Lab</td>
<td>2</td>
<td>10:25-11:40</td>
<td>MWF</td>
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<tr>
<td>4802</td>
<td>2</td>
<td></td>
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<td>Plus arr.</td>
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### BUSINESS AND ECONOMICS DIVISION

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<tbody>
<tr>
<td>3840</td>
<td>1</td>
<td>DGS: Communications and Report Writing</td>
<td>4</td>
<td>7:00-10:00 p.m.</td>
<td>TTh</td>
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<tr>
<td>3900</td>
<td>1</td>
<td>DGS: Typing Techniques and Methods</td>
<td>4</td>
<td>10:20-12:00</td>
<td>Daily</td>
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<tr>
<td>4900</td>
<td>1</td>
<td>Independent Study</td>
<td>1-4</td>
<td>Arr.</td>
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### CREATIVE ART DIVISION

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<tr>
<td>1110</td>
<td>1</td>
<td>Introduction to Art</td>
<td>4</td>
<td>10:20-12:00</td>
<td>Daily</td>
</tr>
<tr>
<td>3320</td>
<td>1</td>
<td>Arts and Crafts for Children</td>
<td>3</td>
<td>9:30-5:30</td>
<td>Daily</td>
</tr>
<tr>
<td>3511</td>
<td>1</td>
<td>Ceramics Workshop, June 21-July 9</td>
<td>3</td>
<td>1:15-5:00</td>
<td>MTWTh</td>
</tr>
<tr>
<td>3512</td>
<td>2</td>
<td>Ceramics Workshop, July 12-July 30</td>
<td>3</td>
<td>1:15-5:00</td>
<td>MTWTh</td>
</tr>
<tr>
<td>4231</td>
<td>1</td>
<td>Painting; Water Media</td>
<td>3</td>
<td>1:15-4:45</td>
<td>TTh</td>
</tr>
<tr>
<td>5921</td>
<td>1</td>
<td>D.G.S.: Elementary Art, August 9-20</td>
<td>3</td>
<td>7:35-12:00</td>
<td>Daily</td>
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### MUSIC

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<tr>
<td>2111</td>
<td>1</td>
<td>Survey of Music Literature</td>
<td>3</td>
<td>10:25-11:40 a.m.</td>
<td>MW</td>
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<tr>
<td>5920</td>
<td>1</td>
<td>Elementary Music Workshop, July 5-16</td>
<td>3</td>
<td>1:00-4:00 p.m.</td>
<td>Daily</td>
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<tr>
<td>5921</td>
<td>1</td>
<td>Mozarts Festival, June 23-July 28</td>
<td>2-3</td>
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<tr>
<td>5922</td>
<td>1</td>
<td>Choral Materials Workshop</td>
<td>3</td>
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### SPEECH AND DRAMA

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<tr>
<td>5922</td>
<td>1</td>
<td>Speech Activities for the Teacher</td>
<td>4</td>
<td>1:30-4:00 p.m.</td>
<td>MTWTh</td>
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<tr>
<td>5923</td>
<td>1</td>
<td>Theatre in Performance</td>
<td>3</td>
<td>7:00-9:00 p.m.</td>
<td>MTWTh</td>
</tr>
<tr>
<td>5924</td>
<td>1</td>
<td>Workshop in Business Speech</td>
<td>3</td>
<td>7:00-9:00 p.m.</td>
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### EDUCATION DIVISION

#### Teacher Education

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<tbody>
<tr>
<td>4021</td>
<td>1</td>
<td>Child Growth and Development</td>
<td>3</td>
<td>7:00-9:15 p.m.</td>
<td>TTh</td>
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<tr>
<td>5010</td>
<td>1</td>
<td>Contemporary American Educ.</td>
<td>4</td>
<td>9:00-10:00 p.m.</td>
<td>MW</td>
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<tr>
<td>5069</td>
<td>1</td>
<td>Home and School</td>
<td>3</td>
<td>9:00-1:35 a.m.</td>
<td>Daily</td>
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<tr>
<td>5100</td>
<td>1</td>
<td>Evaluation in Education</td>
<td>4</td>
<td>7:00-9:00 p.m.</td>
<td>MW</td>
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<tr>
<td><strong>5210</strong></td>
<td><strong>2</strong></td>
<td>Workshop—Language Arts in Elem. School</td>
<td>3</td>
<td>8:45-12:00 a.m.</td>
<td>Daily</td>
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<tr>
<td><strong>5230</strong></td>
<td><strong>1</strong></td>
<td>Workshop in the Improvement of Reading (June 21-July 2)</td>
<td>3</td>
<td>1:00-4:00 p.m.</td>
<td>Daily</td>
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<tr>
<td>5934</td>
<td>1</td>
<td>Workshop—Laboratory Practice in Correction of Reading Difficulties (June 22-July 17)</td>
<td>Clinic 6</td>
<td>9:00-11:00 a.m.</td>
<td>Daily</td>
</tr>
<tr>
<td>5251</td>
<td>1</td>
<td>A-V Methods and Materials</td>
<td>Seminar 3</td>
<td>7:00-9:00 p.m.</td>
<td>MW</td>
</tr>
<tr>
<td>5932</td>
<td>1</td>
<td>Workshop—Curriculum Planning in the Nursery School, Kindergarten and Primary Grades (July 5-30)</td>
<td>Seminar 6</td>
<td>9:00-12:30</td>
<td>Daily</td>
</tr>
<tr>
<td>5910</td>
<td>1</td>
<td>Seminar—Compensatory Education (June 21-July 8)</td>
<td>3</td>
<td>7:00-10:00 p.m.</td>
<td>MWFTh</td>
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<tr>
<td>5935</td>
<td>1</td>
<td>Workshop—The Teaching of Reading and Study Skills in Secondary School (July 5-30)</td>
<td>Clinic 6</td>
<td>1:30-3:30 p.m.</td>
<td>Daily</td>
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<tr>
<td>6020</td>
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<td>Research in Education</td>
<td>Seminar 4</td>
<td>1:25-2:45 p.m.</td>
<td>MWF</td>
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<td>5933</td>
<td>1</td>
<td>Workshop—Creative and Practical Writing</td>
<td>3</td>
<td>1:00-4:30 p.m.</td>
<td>Daily</td>
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</table>

**Students are expected to attend class Monday, June 21.**
CALIFORNIA STATE COLLEGE AT HAYWARD
APPLICATION TO ENROLL – SUMMER 1965

1. Name.........................................................................................................................................................
   (Last) (First) (Middle)

2. Name that will appear on previous education records, if different from above:

   (Last) (First) (Middle)

3. Sex: Male........ Female........

4. Birth date:.......................................................... Mo/Date/Yr Age

5. Mailing address

   Phone

6. Permanent address

7. Marital status: Single........ Married........

8. Check one: Undergraduate........ Graduate........

9. I intend to apply the course(s) I take toward:

   Major................................................................. Credential.................................................................

10. Name and location of last school attended

    Date of attendance ........................................ Degree........

    Are you currently enrolled? (Spring Quarter) Yes........ No........

    If you answered No, do you intend to take courses offered in the Summer Quarter, June 15 to August 31? Yes........ No........

    Signature.......................................................... Date.................................................................
Your cooperation in completing the following tentative program will assist the College in providing suitable course offerings.

Proposed Schedule — Summer Quarter, June 15 to August 31

<table>
<thead>
<tr>
<th>DEPT.</th>
<th>NO.</th>
<th>TITLE</th>
<th>TIME</th>
<th>UNITS</th>
</tr>
</thead>
</table>

Proposed Schedule — Summer Session, June 21 to July 30

NOTE: Students attending Spring '65 will pre-enroll for Summer Quarter, April 12 to 23. New students and returning students will register on June 16.

Students planning to take courses in the Summer Session, six weeks or less, will register June 21. Completion of the above application prior to June 1 will entitle the student to register early on June 21 and thereby minimize delay.

Please complete and return to: Dr. Forrest L. Mayer, Director Summer Programs California State College at Hayward
CORRECTIONS IN SUMMER QUARTER SCHEDULE - June 15 to Aug. 31

Add Couns 6761 - Field Work in Pupil Personnel Services, 3 units (arranged)

Change Time
Hist 4180 - 7:00-9:00pm TTh
Hist 4413 - 1:15-2:55pm TTh
Biol 3500 - 11:50-1:05 MW
Math 1301 - 9:00-10:15 MTWF

Change Day
Zool 3101 - Change to Saturday 8-12 not TTh

Approved to Meet Upper Division General Education: Phil 2000, 3001, 3101
Soc 2010

Not Approved to Meet Upper Division General Education: Engl 3250, 3650
Jour 3700

CORRECTIONS IN SUMMER SESSION SCHEDULE - June 21 to July 30

Add Educ 6700 - Adv. Educational Psychology, 4 units, 10:25-11:40 Daily

Drop Educ 6020 - Research in Education (available in Summer Quarter)

Music 5900 - Mozart Festival will be offered for 3 units
Music 5922 - Dates of Choral Materials Workshop, July 19-30

Engl 4850 - Title should read Studies in the Novel

Soc 3730 - Not approved to meet upper division general education
CORRECTIONS - SUMMER QUARTER AND SUMMER SESSION

CHANGES IN COURSES - Summer Quarter, June 15 - August 31, 1965

Bus 3620 - change time to 4:05-5:20pm
Econ 2301 - change time to 1:15-2:30 pm

Art 1110, Sec. 1 and Sec. 3 - add plus 30 minutes arranged to time schedule
Art 1130 - add plus 50 minutes arranged to time schedule

CA 4800 - 4 units; change time to 10:20-12:00
Add

Mus 3210 - Applied Music (piano) 1 unit arr.
Mus 3211 - Applied Music (organ) 1 unit arr.
Mus 3220 - Applied Music (voice) 1 unit arr.
Mus 3230 - Applied Music (string) 1 unit arr.
Mus 3240 - Applied Music (woodwind) 1 unit arr.
Mus 3250 - Applied Music (brass) 1 unit arr.

Educ 4264 - Public School Lab IV, 3 units, 9:00-12:00 daily (added class), July 5-
Coun 5910 - 3 units

Engl 3703 - changed to Engl 2702
Hist 3510 - dropped
Hist 4413 - change time to 8:00-9:40
Phil 2000 - change time to 11:50-1:05
Phil 3001 change days to MWF

Biol 3500 - change time and days to 11:50-1:05 M W

ScEd 4020 1L - change time to 2:15-5:15
Zool 3101- time of class, 1:00-5:00 F and 8:00-12:00 Sat.

Chem 3301 - change time to 10:25-11:15

Psych 2000, Sec. 2 - 1:05-2:30 M W F

Symp 4801 - Senior Symposium, 3 units, 11:50-1:05, MWF (added class)

Acceptable for Upper Division in General Education:
Hist 2001, Sec 1 & 2, A P 3301
Phil 2000, Soc 2010
Phil 3101

Not Approved Upper Division General Education Courses
Engl 3250, Engl 3650, Jour 3700, PoSc 4310

Summer Session, June 21-July 30

Add

Bus 3850 - Data Processing, 4 units, 6:45-9:45 pm M W

Mus 5921 - Mozart Festival, June 23-July 28, 3 units, 6:45-9:45 pm W, plus performance dates between workshop dates.

Mus 5922 - Choral Materials Workshop, July 19-30, 3 units, 1:00-4:00 daily

Educ 5100 and Educ 5210 - Classes held at Diablo Valley College

Educ 5233 - changed to Educ 5994-Workshop-Laboratory Practice in Correction of Reading Difficulties (June 22 - July 17) Clinic 9:00-11:00, Seminar 11:30-1:00

Educ 5932 - Workshop-Curriculum Planning in the Nursery School, Kindergarten and Primary Grades (July 5-30)

Educ 5933 - Workshop-Creative and Practical Writing
Add Educ 6700 - Advanced Education Psychology, 4 units, 10:25-11:40 daily

Educ 5910 dropped
SAS 5941 - dropped
SAS 5943 - Workshop-Secondary School Accreditation

P E 5911 - Workshop in the Administration and Coaching of Interscholastic Football
P E 5912 - Workshop in the Administration and Coaching of Interscholastic Baseball
P E 5913 - Workshop in Elementary School Physical Education

Eng 1010 - time of class, 7:00-9:30 pm M T Th
Eng 4650 - to read studies in Novel, 1:15-2:30 T Th

Psych 4610 - change time 1:15-2:25
Add Math 5910 - Structures of Arithmetic and Algebra, 5 units, 7:30-8:55 am, daily
Math 5101 - dropped

Soc 3730 - days changed to MW (not approved upper division general education course
Soc 3920 - days changed to TTh

An N.S.F. Institute in Mathematics will be held June 21 to July 30. Contact Dr. Southard for details.