

An impressionistic painting of a forest path. The scene is dominated by vibrant green foliage and trees, with a path leading through them. The brushwork is thick and expressive, with visible textures and a rich color palette including greens, yellows, oranges, and blues. The overall mood is bright and naturalistic.

CALIFORNIA STATE UNIVERSITY

# STANISLAUS

1993-95

## The President's Message

*CSU Stanislaus provides a unique educational experience. The benefits and opportunities are significant and the faculty exceptionally qualified, with eighty-five percent holding the Ph.D. or its equivalent. The University offers a rich learning environment, with student-to-faculty ratios that foster intellectual development and individual growth. An outstanding feature of the University is the faculty commitment to teaching-excellence, coupled with the staff commitment to provide the quality of support necessary to accomplish our educational mission.*

*From the Baccalaureate to the Master's degree and related credentials, CSU Stanislaus offers an extensive array of educational programs in nearly fifty fields of specialization. Offering programs on-campus or off-campus, full-time or part-time, daytime or evening, we continue to emphasize quality and excellence in education to respond to the multiple needs of today's students. Equally diversified are our students themselves. Through a strong commitment to diversity and educational equity, CSU Stanislaus helps each student reach his or her full potential. Educational enrichment opportunities are also available through extension programs offered by the Regional and Continuing Education department. The University has earned both statewide and national recognition for its educational achievements.*

*The recent dedication of the new CSU Stanislaus Stockton Center will serve to reinvigorate the long-term cooperative relationship between the University and the San Joaquin Delta College. Undergraduate programs in the liberal arts and business, and graduate programs in business administration, public administration, and education are currently available to students. In addition, the instructional television system offers nearly 100 courses annually to students in nine locations around the region.*

*This catalog describes the University's educational resources and is designed to assist students in making the best choices for their future. I personally encourage you to become thoroughly familiar with its contents. We look forward to your becoming an integral part of the CSU Stanislaus family.*



Lee R. Kerschner

CALIFORNIA STATE UNIVERSITY  
**STANISLAUS**



Catalog  
1993-95

801 West Monte Vista Avenue  
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## Schedule of Classes

The Schedule of Classes is available at the Kiva Bookstore for \$1.00 (includes tax). To order copies by mail, within the continental United States, include \$1.29 to cover handling and postage. For international orders send a total of \$6.79 (U.S. dollars).

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# 1993-94 Academic Calendar

## Fall 1993 Semester

Registration dates and related information are available in the current Schedule of Classes.

November 1, 1992-August 2, 1993	.....	Admission Application Filing Period
March 1, 1993	.....	Applications Due for Fall 1993 Graduation
March 1	.....	Priority Financial Aid Application Deadline†
August 20	.....	Last Day to Complete Admission File
September 2	.....	Classes Begin
September 6	.....	Labor Day
September 30	.....	Enrollment Census Date: enrollments not accepted after this date
October 12	.....	Columbus Day
November 11	.....	Veterans' Day
November 25-26	.....	Thanksgiving Holiday
December 9	.....	Last Day of Classes
December 10	.....	Reading Day
December 10	.....	Deadline for Graduation Approvals/ Clearances
December 13-16	.....	Final Examinations
December 16	.....	Last Day of Term
December 16	.....	Bound Master's Theses due to Graduate Studies Office
December 16-21	.....	Grades Due from Faculty
December 24-January 2	.....	Holiday Break, Campus Closed

## Winter 1994 Term

Registration dates and related information are available in the current Schedule of Classes.

March 1, 1993	.....	Priority Financial Aid Application Deadline†
June 1-November 15, 1993	.....	Admission Application Filing Period
November 22	.....	Last Day to Complete Admission File
January 4, 1994	.....	Classes Begin
January 11	.....	Enrollment Census Date: enrollments not accepted after this date
January 17	.....	Martin Luther King Day
February 1	.....	Last Day of Classes
February 2	.....	Reading Day
February 2	.....	Deadline for Graduation Approvals/ Clearances
February 3	.....	Final Examinations
February 3	.....	Last Day of Term
February 3	.....	Bound Master's Thesis Due
February 3-8	.....	Grades Due from Faculty

† Applications for financial aid are accepted on an annual basis each year.

## Spring 1994 Semester

Registration dates and related information are available in the current Schedule of Classes.

March 1, 1993 .....	Priority Financial Aid Application Deadline†
August 1, 1993-January 7, 1994 .....	Admission Application Filing Period
January 14 .....	Last Day to Complete Admission File
February 14 .....	Classes Begin
February 21 .....	Washington's Birthday
March 14 .....	Enrollment Census Date: enrollments not accepted after this date
April 4-8 .....	Spring Break
May 13 (afternoon) .....	Warrior Day
May 20 .....	Last Day of Classes
May 23 .....	Reading Day
May 23 .....	Deadline for Graduation Approvals/ Clearances
May 24-27 .....	Final Examinations
May 27 .....	Bound Master's Theses due to Graduate Studies Office
May 27-June 2 .....	Grades Due from Faculty
May 28 .....	Commencement
May 28 .....	Last Day of Term
May 30 .....	Memorial Day

## Summer 1994 Session

April 11, 1994 .....	Registration Begins for Summer Session
June 20-August 19, 1994 .....	Instruction

Contact the Office of Continuing and Extended Education for further information.

---

† Applications for financial aid are accepted on an annual basis each year.



# ACADEMIC CALENDAR

**SEPTEMBER 1993**

			1	2	3				
4	5	6	7	8	9	10			
11	12	13	14	15	16	17			
18	19	20	21	22	23	24			
25	26	27	28	29	30				

**OCTOBER 1993**

					1	2			
3	4	5	6	7	8	9			
10	11	12	13	14	15	16			
17	18	19	20	21	22	23			
24	25	26	27	28	29	30			
31									

**NOVEMBER 1993**

			1	2	3	4	5	6	
7	8	9	10	11	12	13			
14	15	16	17	18	19	20			
21	22	23	24	25	26	27			
28	29	30							

**DECEMBER 1993**

			1	2	3	4			
5	6	7	8	9	10	11			
12	13	14	15	16	17	18			
19	20	21	22	23	24	25			
26	27	28	29	30	31				

**JANUARY 1994**

									1
2	3	4	5	6	7	8			
9	10	11	12	13	14	15			
16	17	18	19	20	21	22			
23	24	25	26	27	28	29			
30	31								

**FEBRUARY 1994**

			1	2	3	4	5		
6	7	8	9	10	11	12			
13	14	15	16	17	18	19			
20	21	22	23	24	25	26			
27	28								

**MARCH 1994**

			1	2	3	4	5		
6	7	8	9	10	11	12			
13	14	15	16	17	18	19			
20	21	22	23	24	25	26			
27	28	29	30	31					

**APRIL 1994**

									1
2	3	4	5	6	7	8	9		
10	11	12	13	14	15	16			
17	18	19	20	21	22	23			
24	25	26	27	28	29	30			

**MAY 1994**

			1	2	3	4	5	6	7
8	9	10	11	12	13	14			
15	16	17	18	19	20	21			
22	23	24	25	26	27	28			
29	30	31							

**JUNE 1994**

			1	2	3	4			
5	6	7	8	9	10	11			
12	13	14	15	16	17	18			
19	20	21	22	23	24	25			
26	27	28	29	30					

**JULY 1994**

									1
2	3	4	5	6	7	8	9		
10	11	12	13	14	15	16			
17	18	19	20	21	22	23			
24	25	26	27	28	29	30			
31									

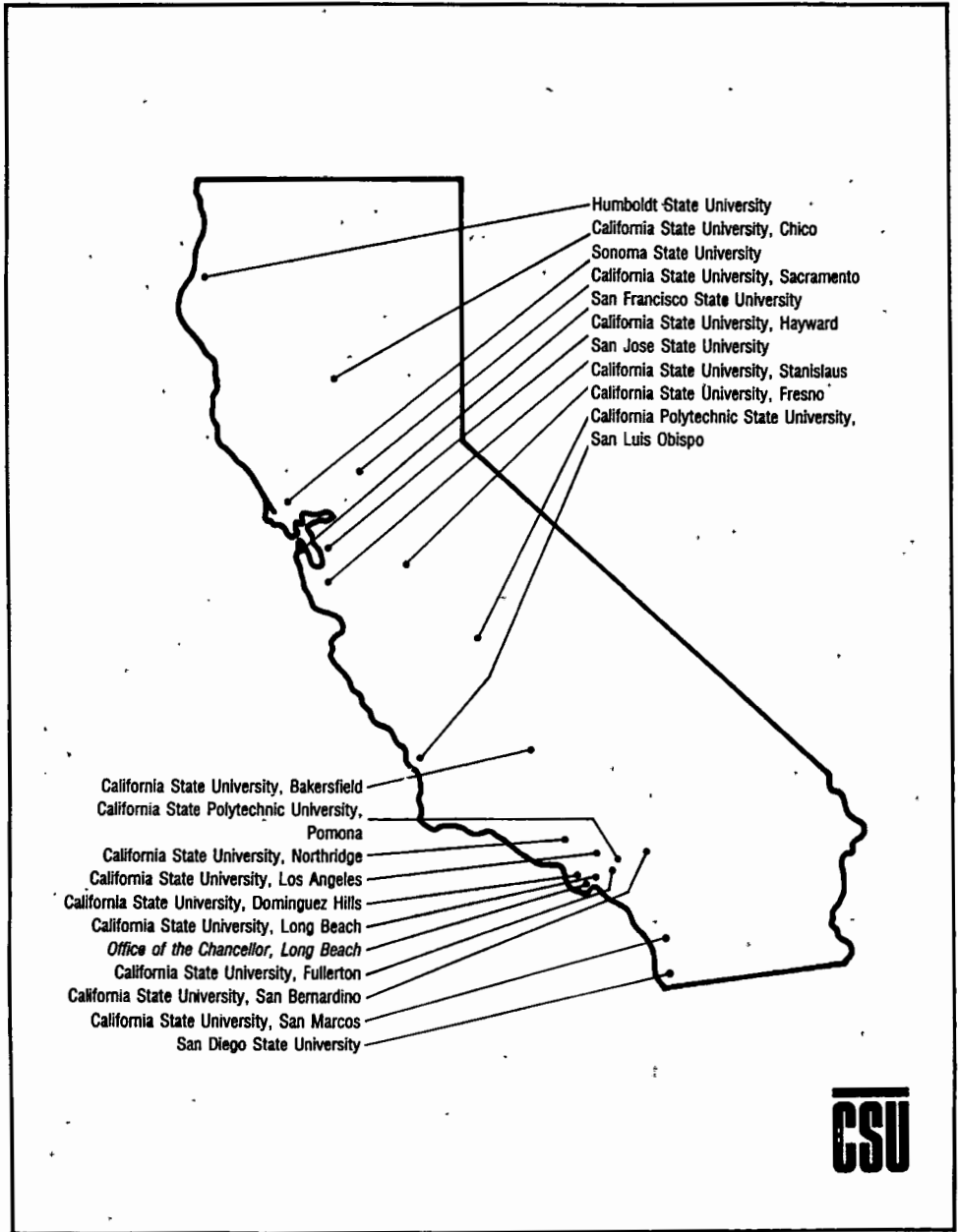
**AUGUST 1994**

			1	2	3	4	5	6	
7	8	9	10	11	12	13			
14	15	16	17	18	19	20			
21	22	23	24	25	26	27			
28	29	30	31						

- No classes
- No classes, campus closed

*Note: This is not intended to be construed as an employee work calendar.*

# THE CALIFORNIA STATE UNIVERSITY



## California State University

The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act of 1960. In 1972 the system became The California State University and Colleges and in 1982 the system became The California State University. Today, all of the 20 campuses have the title "university."

The oldest campus—San Jose State University—was founded as a Normal School in 1857 and became the first institution of public higher education in California. The newest campus—California State University, San Marcos—began admitting students in fall 1990.

Responsibility for The California State University is vested in the Board of Trustees, consisting of ex officio members, alumni and faculty representatives, and members appointed by the Governor. The Trustees appoint the Chancellor, who is the chief executive officer of the system, and the Presidents, who are the chief executive officers of the respective campuses.

The Trustees, the Chancellor, and the Presidents develop systemwide policy, with actual implementation at the campus level taking place through broadly based consultative procedures. The Academic Senate of The California State University, made up of elected representatives of the faculty from each campus, recommends academic policy to the Board of Trustees through the Chancellor.

Academic excellence has been achieved by The California State University through a distinguished faculty, whose primary responsibility is superior teaching. While each campus in the system has its own unique geographic and curricular character, all campuses, as multipurpose institutions, offer undergraduate and graduate instruction for professional and occupational goals as well as broad liberal education. All of the campuses require for graduation a basic program of general education-breadth requirements," regardless of the type of bachelor's degree or major field selected by the student.

The CSU offers more than 1,500 bachelor's and master's degree programs in some 200 subject areas. Many of these programs are offered so that students can complete all upper-division and graduate requirements by part-time late afternoon and evening study. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California.

In fall 1992, the system enrolled approximately 347,000 students, taught by more than 17,000 faculty. Last year the system awarded over 50 percent of the bachelor's degrees and 30 percent of the master's degrees granted in California. More than 1.2 million persons have been graduated from the 20 campuses since 1960.

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Turlock, California 95382  
Dr. Lee R. Kerschner, Interim President  
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# University Mission

California State University, Stanislaus is an educationally, intellectually, and culturally dynamic public university with a unique responsibility to serve the central San Joaquin Valley and the neighboring Central Sierra foothills. Its mission is integrated by three core principles: excellence, diversity, and responsiveness. Every facet of University life is affected by these principles and every member of the campus community is guided by them. Excellence is revealed in teaching, learning, research, artistic and other creative endeavors. Diversity is revealed in the composition of faculty, students, and staff and the educational environment they nurture. Responsiveness is revealed in the ways the University addresses the needs of all groups and contributes to the quality of life in its service region.

*In fulfilling its commitment to excellence, CSU Stanislaus:*

*Promotes and values teaching excellence*

CSU Stanislaus stresses quality instruction, pedagogical flexibility, professional development, and curricular innovation. It has a faculty dedicated to teaching and to the cultivation of a creative learning environment. In this environment, students are motivated to become resourceful, responsible, and competent citizens. The commitment to excellence is given meaning in every instructional setting.

*Meets the educational needs of its undergraduate, graduate, and credential students*

CSU Stanislaus is committed to graduating students who have the desire and ability to communicate effectively in diverse cultural and intellectual environments. To this end, students are expected to attain mastery of fundamental problem-solving techniques along with critical thinking skills for the communication and evaluation of ideas. In the process, they are exposed to a diversity of ideas, perspectives, cultures, and technologies.

The University provides programs and support services to traditional and non-traditional students, day and evening students, full-time and part-time students, and campus and off-campus students. The delivery of these programs and services involves the constructive participation of faculty, staff, and students.

*Encourages and supports the creative, scholarly, and artistic efforts of its faculty*

Research, scholarship, and other creative endeavors complement the University's mission of teaching excellence. Faculty serve as role models and are expected to remain active participants in their chosen fields. The University supports on-going professional development and the involvement of students in the creative activities of its faculty.

*Protects academic freedom and cultivates a positive intellectual environment in which ideas are freely exchanged, creativity is nurtured, and information services are readily available*

## 10 / Introduction to Stanislaus

The University seeks to create a stimulating intellectual environment—one that is presented both in and out of the classroom. This environment contributes to the personal, social, and intellectual growth of students; encourages persons of varied perspectives to engage in discussions where ideas can be exchanged and debated freely; promotes and nourishes creativity; motivates individuals to explore the benefits of technology; and provides access to information through the library and other resources. The educational climate is designed to protect and preserve academic freedom.

### ***In fulfilling its commitment to a multicultural society, CSU Stanislaus:***

*Fosters diversity on campus, promotes mutual understanding and respect among all groups, provides equal educational access to all, including those with disabilities and those facing personal barriers, and offers a curriculum that prepares students to live productively in a multicultural society*

The forces underlying cultural pluralism in California—particularly international immigration—are unmistakable today and are likely to become even more significant in the future. In fact, by the first decade of the 21st century California will become a state without a single ethnic majority group.

As an institution of higher learning, CSU Stanislaus both initiates and responds to change through the composition of its personnel and student body, the contents of its curriculum, and its attitudes toward diversity. As a leader in the multicultural society, and as a reflection of it, the University becomes a multicultural university providing equal educational access to all and nourishing a healthy respect for cultural pluralism.

### ***In fulfilling its commitment to be responsive, CSU Stanislaus:***

*Provides educational and professional services suited to the needs of the citizens of its six-county service region and seeks to extend its contributions and influence throughout California, the nation, and the world*

While fulfilling its obligation to provide educational and professional services to a global community, CSU Stanislaus has a legally established mandate to provide these same kinds of services to a six-county area. The University has a special responsibility to contribute to the enrichment of this region and to sponsor activities that meet the needs of the community at large.

*Provides public service to communities and works constructively with other educational, public, and private organizations on matters of mutual interest*

The University seeks to establish mutually beneficial partnerships with schools and other educational agencies, government, businesses, and professions. These partnerships represent a commitment and application of campus expertise and University resources both within and outside the region.



# California State University, Stanislaus

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Director, Financial Aid .....	Joan R. Hillery
Director, University Outreach Services .....	Jaime Alcaraz

Senior Director, Student Life/Director, Health Center .....	Frederick S. Edmondson
Director, Residential Life .....	Mark B. Erickson
Director, University Union .....	Karen Grant
Director, Student Programming and Organizations .....	Lee J. Renner
Senior Director, Retention Services/Director, Counseling, Career Development and Academic Support Services ...	Karen L. Mendonca
Coordinator, Employer Relations .....	Don Lawson
Coordinator, International Student Program .....	Bob L. Santos
Coordinator, Disabled Student Programs .....	Rhonda D. McKinney
Director, Academic Advising .....	Peter Finley
Coordinator, Re-entry and Peer Advising Programs .....	Laura Collard
Director, EOP/Special Programs .....	Vacant
Project Director, Student Support Services ...	Jessi Diaz
Director, ILE Program .....	George E. Settera
Director, Writing Skills Program .....	Ann Krabach
Director, Faculty Mentor Program .....	Kathleen N. Shipley
Director, California Mini-Corps (Turlock) ...	Fernando Pena
Director, California Mini-Corps (Stockton) ..	Josephina Gutierrez-Miller
Director, Teacher Diversity Program .....	Richard Levering
Acting Director, Office of Information Technology .....	Robert S. Fisk
Director, Athletics .....	Joseph T. Donahue
Director, Institutional Research .....	Edward J. Lamie

<b>Dean, College of Arts, Letters, and Sciences .....</b>	<b>Irel Urreiztieta</b>
Associate Dean .....	Jay P. Christofferson
Department Chairs:	
Anthropology/Geography .....	Melvin H. Aamodt
Art .....	Martin L. Camarata
Biological Sciences .....	Wayne S. Pierce
Chemistry .....	James E. Byrd
Communication Studies .....	Fred P. Hilpert
Computer Science .....	Thomas J. Carter
Drama .....	Jere D. Wade
Economics .....	H. Dieter Renning
English .....	George E. Settera
History .....	Britten Dean
Mathematics .....	Louis A. Feldman
Modern Languages .....	Gerhard G. Mack
Music .....	Edward C. Harris
Nursing .....	June L. Boffman
Philosophy/Cognitive Studies .....	James A. Tuedio
Physics, Physical Sciences & Geology .....	Marvin Johnson
Politics/Public Administration .....	Steven W. Hughes
Psychology .....	James A. Wakefield, Jr.
Sociology/Criminal Justice .....	Clyde V. Collard
Women's Studies and Ethnic Studies .....	Richard L. Luevano

<b>Interim Dean, School of Business Administration</b> .....	<b>U. Rao Cherukuri</b>
Department Chairs:	
Accounting .....	Don E. Garner
Computer Information Systems .....	Ronald W. Lodewyck
Finance .....	Daniel R. Vellenga
Management .....	Ronald W. Lundquist
Marketing .....	Rhonda W. Mack
Production Operations Management .....	Nael A. Aly
Graduate Programs Director .....	Al S. Khade
<b>Interim Dean, School of Education</b> .....	<b>Richard D. Conant</b>
Department Chairs:	
Advanced Studies in Education .....	Roy Y. Yasui
Physical Education/Health .....	Martha M. Moren
Teacher Education .....	Doni K. Kobus
Credential Analyst .....	Lilia J. Baballe
<b>Dean, Library Services</b> .....	<b>John K. Amrhein</b>
Associate Librarian (Reference) .....	Laura M. Boyer
Senior Assistant Librarian (Cataloging) .....	Valerie Bross
Librarian (Online Searching) .....	Paula J. Crawford
Librarian (Collection Development) .....	Peter C. Mollema, Jr.
University Archivist .....	J. Carlyle Parker
Librarian (Serials/Systems) .....	Priscilla S. Peters
Librarian (Bibliographic Instruction) .....	Robert L. Santos
Senior Assistant Librarian (Reference/Circulation) .....	Judith A. Tamimi
<b>Executive Vice President</b> .....	<b>Mark L. Perkins</b>
Assistant to the Executive Vice President .....	Georgia Finseth
Associate Vice President for Facilities	
Planning and Operations .....	Carl K. Coffey
Director of Physical Plant .....	Robert A. Gallegos
Director of Public Safety Services .....	James E. Shaw
Environmental Health and Safety Officer .....	Ronald Y. Misaki
Executive Director, University Advancement .....	Angela R. Coggins
Director of Administrative Services and Assistant to the Executive Vice President ...	Becka A. Paulsen
University Comptroller .....	Jim D. Phillips
University Budget Officer .....	John R. Waayers
Assistant University Budget Officer .....	Kimberly K. Dobson
Foundation Director .....	Gary M. Toombs

## Hours of Operation

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

Summer Hours: 7:30 a.m. to 4:00 p.m., Monday through Friday, June through August.

## The Academic Program

Students are encouraged to take courses that will give them a broad understanding of the liberal arts during their first two years of study. This breadth then permits them to make a more informed choice of their field of specialization. The University offers 34 such majors for in-depth and pre-career study. A listing of all available majors, minors, and concentrations is included in the "Degrees and Programs" section of this catalog.

CSU Stanislaus also offers Master of Arts and Master of Science programs described in the "Graduate Programs" section of this catalog.

## Accreditation

California State University, Stanislaus is fully accredited by the Western Association of Schools and Colleges. The Chemistry Department is nationally accredited by the American Chemical Society, the Music Department by the National Association of Schools of Music, the Art Department by the National Association of Schools of Art and Design, the Drama Department by the National Association of Schools of Theatre, the Master of Public Administration program by The National Association of Schools of Public Affairs and Administration (NASPAA), the Computer Science Department by the Computing Sciences Accreditation Board, and the Nursing Department by the National League for Nursing. The program the School of Education have achieved distinction through accreditation at the national level by the National Council for Accreditation of Teacher Education (NCATE), at the regional level by the Western Association of Schools and Colleges (WASC), and at the state level by the California Commission on Teacher Credentialing (CTC).

## The 4-1-4 at CSU Stanislaus

California State University, Stanislaus was the first public, four-year institution of higher learning in California to adopt a 4-1-4 academic calendar. The program, now beginning its twenty-first year, has been well received by students and faculty.

Under 4-1-4 the academic year consists of two 13-week semesters and a month-long Winter Term beginning in January. Fall semester ends before the holiday break and spring semester finishes in late May. A typical student load is four courses in the fall, one during Winter Term, and four in the spring—hence "four-one-four."

Although in the course of an academic year, the 4-1-4 calendar is exactly equivalent to traditional semester or quarter programs in terms of instructional weeks (30), credit units earned, teaching loads, and registration fees, the structure of the 4-1-4 year provides greater opportunities for an innovative and challenging curriculum.

The unique dimension of 4-1-4 is the month-long Winter Term in which both students and faculty concentrate on one course or project. Winter Term is tangible evidence of the University's commitment to intellectual inquiry and creative pedagogy. To stimulate academic innovation and encourage students to explore unfamiliar disciplines, most Winter Term courses and projects are graded on a Credit/No Credit basis. Winter Term courses, as an integral part of the 4-1-4 calendar, are required for graduation.

During Winter Term both teacher and student have an unusual chance for intensive, uninterrupted pursuit of a single subject. This concentration of time, resources, and

energy in itself constitutes a new intellectual experience for most undergraduates. Furthermore, CSU Stanislaus Winter Term policy facilitates interdisciplinary teaching and learning, invites off-campus field work and research, allows students to propose courses or projects, and provides foreign travel/study courses.

## The Facilities

The campus of California State University, Stanislaus blends modern facilities with the pastoral charm of the countryside. Two-hundred and twenty acres provide room for growth as enrollment dictates. The campus grounds have undergone improvements in landscaping over the past several years, providing a beautiful, well-maintained setting to enhance university life.

CSU Stanislaus was established by the State Legislature in 1957 and first offered classes in September of 1960 in temporary quarters at the Stanislaus County Fairgrounds in Turlock. The University moved to its permanent site in 1965 following construction of its first major facilities. The Classroom Building housed facilities for art, music, drama, and the sciences in addition to providing classrooms for lectures. The library, a companion project to the Classroom Building, was later named the Vasche Library in memory of the university's founding president Dr. J. Burton Vasche.

The Performing Arts Complex opened a few years later to provide space for the departments of art, drama, and music. This multi-purpose project includes a modern, functional 300-seat Mainstage Theatre for drama productions, recitals, concerts, and lectures. The music facility features a 200-seat recital hall, while art occupies spacious and modernly-equipped studios as well as the University Art Gallery.

The addition of the Science Building provided one of the most modern facilities of its kind in the California State University system, with traditional as well as space-age equipment: a laser laboratory, a tissue cultures lab, an electron microscope, geology labs, greenhouse, and other laboratories and classrooms for science and mathematics students. An observatory serving astronomy classes was added adjacent to the Science Building in 1977.

The Dining Hall Complex opened its doors in the Fall of 1975, and the adjacent Stanislaus Union Building (SUB) was added in 1978. These facilities have become the center for students during their leisure hours. The Dining Hall Complex includes a cafeteria with seating for 500, two smaller dining rooms for private meetings, and the Residence Life Village dining hall, Mom's. The SUB houses the Kiva Bookstore, Kiva Computer Store, Associated Students offices, a recreation center, lounges, multi-purpose room, coffee house, and study and conference rooms.

Physical education facilities constructed over the years include a Fieldhouse, a Gymnasium with seating for 2,300, softball and baseball diamonds, soccer field, a vita-course, tennis courts, an all-weather track, and a swimming pool.

Dedicated in 1981, the campus Health Center provides basic medical services, health maintenance, and health education.

Campus facilities also include: a 160-student dormitory that was purchased in 1975 along with ten acres of land adjacent to the campus; a Computer Science Building that was converted from a Bank of America portable branch facility donated to the University in 1982; and the Television Learning Center that was converted from a former athletic storage facility in 1982 for development of the Regional Television Course Distribution System.

Recent additions include Vasche Library II completed in 1989, doubling the size of the original building, and a major addition to the University Union Building, including an enlargement of Kiva Bookstore completed in 1992. A new Residential

Life Village, currently in construction, will open in September 1993. The schematic planning phase for a Professional Schools Building and an Educational Services Building began in the summer of 1992 with anticipated occupancy in 1996. Construction is dependent on voter passage of future state bond issue.

## **Library**

Located on the second and third floors of the newly enlarged Vasche Library Building, the University Library provides the recorded knowledge and cultural materials that students and faculty need for study and research. These materials are freely available in attractive and comfortable surroundings accommodating 548 readers in a variety of seating patterns. The Library is staffed by paraprofessional library assistants and by professionally trained librarian-scholars who organize, analyze, and interpret those materials. Professional reference service is available during most of the hours the Library is open. The librarians also offer to help students acquire the principles of independent library research through formal courses and individual instruction. The Library offers a specialized program of consultation and assistance for graduate students with in-depth research for papers and theses. Computerized data base searching is available to all CSU Stanislaus students and faculty through the use of CD-ROM workstations and librarian-assisted online searches.

The Library collection has been developed with the active participation of the faculty to meet the needs of the curriculum and special areas of research. It contains over 290,000 volumes, and includes subscriptions to about 4,000 periodicals and other serials. Backfiles of most of these periodicals are available. The Library is a selective depository for United States government publications, and maintains an extensive collection of documents published by the State of California and local governments of the University's six-county service area.

The Library's curriculum collection, which consists of courses of study, curriculum guides, and activity units is available on microfiche for the use of pre-service and in-service teachers enrolled in the School of Education. A collection of about 3,100 representative children's books comprises the children's collection.

Publications which are not locally available can be obtained quickly for CSU Stanislaus students and faculty by the Library's interlibrary loan service, which is connected electronically to over 8,000 libraries of all types.

Stockton Center students receive library services from the main campus library in Turlock, and also have full library privileges at the University of the Pacific in Stockton.

## **Instructional Media Center**

The University provides centralized instructional media services designed to enrich classroom instruction by providing access to the latest equipment and materials available. Media materials available on campus include 350 film titles and over 200 videocassette tapes which are used extensively by the faculty and students in the library as well as in the classroom.

The Instructional Media Center has comprehensive catalogs of films, videotapes, and other off-campus materials available through rentals from major film libraries throughout the United States.

Faculty members may check out video recorders and camcorders to use in course-connected activities. Coaxial cables connect major campus buildings; eventually equipment will be installed to provide instant access to instructional materials through an electronic distribution system.

Qualified personnel assist with the production of instructional materials. Services offered include: Video production studio, preview rooms, transparency-making, high speed stereo copying of audio cassette tapes, duplication of video tapes, fax services, video editing, and photographic duplication of slides.

### **Institute for International Studies**

The Institute, comprised of faculty members and administrators with global teaching and research interests, is committed to infusing the University's curriculum and community with international and multicultural perspectives. The Institute's programs receive their primary support from grants made by individuals, foundations, and government agencies. The Institute houses and sponsors such diverse projects as the Foreign Language Association of Central California, the Center for Southeast Asian Studies, the Community International Lecture Series, the Fulbright Scholar in Residence Program, the Summer Institute in Geography, and the Project in International and Multi-Cultural Education (which provides outreach in history/social science to local schools). Contact the Institute for additional information on current programs. (209) 667-3117

### **Public Safety**

The Department of Public Safety/State University Police, (209) 667-3114, employs trained, full-time peace officers and support staff for the 24 hour protection of the campus, its students, staff, and faculty. The department offers a wide variety of crime prevention and personal safety awareness programs including sexual assault and date/acquaintance rape awareness, CPR and first aid training, residence and personal property protection and general personal safety. In addition to its law enforcement duties, such as traffic and parking enforcement, the Department of Public Safety also provides public services including personal after-hour escort service, the locking and unlocking of buildings and rooms, motorist assistance including battery jumps and vehicle unlocks, and the administration of the lost and found property program.

In an emergency or to report an incident use the emergency Blue Light phones located on campus or dial 9-911 if using a campus phone line or 911 from a public telephone.

### **Information Center**

The Information Center is located in the lobby of the University Union Building (209) 667-3122. The Center provides information about various student activities, campus events and programs, extensions to all faculty, staff, and campus departments and a variety of other services. In addition, all University Union facility reservations can be made at the Information Desk. The Center is staffed by student employees, Monday through Thursday, 7:30 a.m. to 7:00 p.m. and Friday, 7:30 a.m. to 6:00 p.m.

### **University Union Facility Reservations**

All University Union Facility Reservations can be made in person at the Information Center located in the lobby of the University Union or by calling (209) 667-3780, Monday through Thursday, 7:30 a.m. to 7:00 p.m. and Friday, 7:30 a.m. to 6:00 p.m. There are three conference rooms available for reservation by students and campus community at no charge. In addition, the Event Center is available for rent by student clubs, campus departments, and the outside community.

## Continuing and Extended Education

Office: Classroom Building 123, (209) 667-3311

The Division of Continuing and Extended Education provides a number of programs and services to the people of the CSU Stanislaus service area—Calaveras, Mariposa, Merced, Stanislaus, San Joaquin, and Tuolumne Counties. The programs are designed primarily to meet the needs of non-traditional students throughout the region. Additional information on any of these programs can be obtained by writing the Division of Continuing and Extended Education or calling (209) 667-3111.

**Open University:** Students who are not interested in seeking a degree or who have not been admitted as regular students may enroll, on a space-available basis and with the permission of the instructor, in any regularly scheduled course offered by the University. This type of enrollment through the Division of Continuing and Extended Education which is taken for credit only, is then recorded on a student's Extension transcript. If a student later wishes to have Open University credit applied toward a degree, a maximum of twenty-four units is allowable for a baccalaureate degree and nine units for a graduate degree. In all cases the permission of the major department is required.

**Extension Programs:** Through the Division of Continuing and Extended Education, the University offers especially designed courses, both credit and non-credit, to meet particular needs. Seminars, conferences, workshops, and weekend courses on specific topics are offered throughout the year.

Courses offered which meet professional licensing requirements may carry CEU (Continuing Education Unit) credit, applicable to the standards of licensing agencies; these are particularly appropriate in fields such as law, medicine, nursing, accounting, and public service which require continuing participation in professional education.

**Summer Sessions:** University summer sessions are operated through the Division of Continuing and Extended Education, and offer courses for regular resident credit.

**Special Programs:** Additional special programs offered include such things as travel courses, teleconferences, lectures, and business and professional seminars. Such activities are ways the institution responds to regional needs, and the Division actively seeks new opportunities to serve the community.

**Television Course-Delivery System:** The University operates an ITFS (Instructional Television Fixed Service) system which transmits regular courses from two classroom-studios on campus and one in Stockton to remote reception sites. A feature of this instructional delivery system is that it provides for active participation of students at the remote sites through an audio talk-back capability. Currently, the televised courses are received by classrooms in Dos Palos, Manteca, Stockton, Tracy, and Castle Air Force Base. Jackson and San Andreas also participate in receiving courses under the auspices of San Joaquin Delta Community College.



This use of electronic technology brings CSU Stanislaus classes and programs to people who are otherwise unable to participate in the academic programs of the University.

**Contract Courses:** Organizations planning continuing education courses using their own instructors can contract with the Division of Continuing and Extended Education to offer academic credit for these off-campus courses. Students who complete these courses are awarded extension credit for their work.

**Contract Degree Programs:** When a group or organization has a number of students interested in earning the same academic degree, the Division of Continuing and Extended Education can provide degree program coursework at an off-campus location. By working in cooperation with a CSU Stanislaus academic department, Extended Education will schedule a full curriculum for students to earn either a bachelor's or master's degree. Each term regular University faculty travel to an off-campus location to teach courses. The convenience of this service can make earning a University degree available to working people who might not otherwise be able to travel to the campus classes.

### **The Higher Education Consortium of Central California (HECCC)**

The Higher Education Consortium of Central California (HECCC) is a cooperative effort of CSU Stanislaus, Columbia College, Merced College, Modesto Junior College and San Joaquin Delta College. The consortium's purpose is to foster curricular and other forms of educational cooperation to provide greater service to the over one million citizens of the service area. Cost-effective services are especially important because of increasingly limited fiscal resources. HECCC is governed by an Executive Committee, a President's Council, a Technical Committee, which works on technical and telecommunications planning; and a Curriculum Committee, which fosters curricular coordination and integration.

### **Castle Air Force Base**

California State University, Stanislaus maintains an office at Castle Air Force Base in Merced, in room 309, building 1214. Courses are offered on a regular basis for Air Force personnel and their dependents, as well as for citizens of the Merced area. A masters program in International Relations is offered entirely on base. For further information, call the Program Coordinator at (209) 722-4868.

## The Stockton Center

- Location:** San Joaquin Delta College  
5151 Pacific Avenue, Stockton, CA, 95207
- Director:** Jessie Garza-Roderick
- Office Hours:** 8:00 a.m. to 7:00 p.m. Monday–Thursday  
8:00 a.m. to 5:00 p.m. Friday
- Telephone:** (209) 474-5777

In cooperation with San Joaquin Delta College, California State University, Stanislaus operates a Center on the Delta College campus in Stockton. Resident credit classes leading to both baccalaureate and master's degrees are offered there for the convenience of citizens of San Joaquin County. This cooperative arrangement between two segments of California's public higher education system is now in its eighteenth year of operation. Degree and credential programs offered by the University are designed to complement the two-year Associate of Arts work provided by San Joaquin Delta College.

### Accreditation

Degree programs offered at the Stockton Center are fully accredited by the Western Association of Schools and Colleges and are an integral part of the program of California State University, Stanislaus:

### Recognition

The American Association of State Colleges and Universities (AASCU) in Washington, D.C., with a membership of 360 universities and colleges nationwide, selected the Stockton Center and CSU Stanislaus for national recognition as an innovative educational program in 1984.

In 1985, AASCU recognized the University's single subject credential fieldsite program in San Joaquin County in its annual "Showcase of Excellence" awards given for developing innovative teacher preparation curriculum.

### Applications and Information

The Stockton Center provides certain student services including admissions information, academic advising, and assistance with financial aid.

## Degree Programs in Stockton

### Bachelor of Arts

- History
- Liberal Studies
- Organizational Communication
- Psychology
- Social Sciences

### Bachelor of Science

- Business Administration
- Accounting
- General Business

### Master's Degrees

- Master of Business Administration
- Master of Public Administration

### Credentials

- Multiple Subjects Credential (Elementary School Teaching)
- Administrative Services

*Note: Check with an adviser to determine if all course work is available in Stockton. Some degree programs may require that certain classes be taken at the campus in Turlock.*

# Admission to the University

CSU Stanislaus admits several categories of students: qualified high school graduates, transfer students from two-year colleges and four-year institutions, and those with baccalaureate degrees. Students may pursue specific course work and programs leading to baccalaureate degrees, advanced degrees, teaching and school service credentials, certificate programs, and professional degrees. Postbaccalaureate students also may be admitted for course work for personal or professional growth.

## Admissions Procedures and Policies

Requirements for admission to California State University, Stanislaus are in accordance with Title 5, Chapter 1, Subchapter 3, of the *California Code of Regulations*. If you are not sure of these requirements you should consult a high school or community college counselor or the Office of Admissions and Records. Applications may be obtained from the admissions office at any of the campuses of the California State University or at any California high school or community college.

## Importance of Filing Complete, Accurate, and Authentic Application for Admission Documents

The CSU advises prospective students that they must supply complete and accurate information on the application for admission, residence questionnaire, and financial aid forms. Further, applicants must submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, *California Code of Regulations*).

## Undergraduate Application Procedures

Prospective students applying for part-time or full-time programs of study in day or evening classes must file a complete application as described in the admissions booklet. The \$55 non-refundable application fee should be in the form of a check or money order payable to "The California State University" and may not be transferred or used to apply for another term. An alternate campus and major may be indicated on the application, but applicants should list as an alternate campus only a CSU campus that also offers the major. Generally, an alternate major will be considered at the first choice campus before an application is redirected to an alternate choice campus.

## CSU Application Filing Periods

Terms in 1993-94	Applications First Accepted	Student Notification Normally Begins
Summer Quarter 1993	February 1, 1993	March 1993
Fall Terms 1993	November 2, 1992	December 1992
Winter Term 1994	June 1, 1993	July 1993
Spring Terms 1994	August 2, 1993	September 1993

## **Filing Period Duration**

Each campus accepts applications until capacities are reached. Many campuses limit undergraduate admission in an enrollment category because of overall enrollment limits. If applying after the initial filing period, consult the campus admissions office for current information.

## **Application Acknowledgment**

You may expect to receive an acknowledgment of your application from your first choice campus within two to four weeks of filing the application. A notice that space has been reserved for you will also include a request that you submit the records necessary for the campus to evaluate your qualifications. You may be assured of admission if the evaluation of your qualifications indicates that you meet admission requirements. Such a notice is not transferable to another term or to another campus.

## **Impacted Programs**

The CSU designates programs to be impacted when more applications are received in the first month of the filing period than can be accommodated. Some programs are impacted at every campus where they are offered; others are impacted only at some campuses. You must meet supplementary admissions criteria if applying to an impacted program.

The CSU will announce before the opening of the fall filing period which programs are impacted and the supplementary criteria campuses will use. That announcement will be published in the "CSU Review," distributed to high school and college counselors. Information about the supplementary criteria is also sent to program applicants.

You must file your application for admission to an impacted program during the first month of the filing period. Further, if you wish to be considered for impacted programs at two or more campuses, you must file an application to each. Nonresident applicants are rarely admitted to impacted programs.

## **Supplementary Admission Criteria**

Each campus with impacted programs uses supplementary admission criteria in screening applicants. Supplementary criteria may include ranking on the freshmen eligibility index, the overall transfer grade-point average, and a combination of campus-developed criteria. If you are required to submit scores on either the SAT or the ACT, you should take the test no later than December if applying for the fall admission cycle.

The supplementary admission criteria used by the individual campuses to screen applicants appear periodically in the "CSU Review" and are sent by the campuses to all applicants seeking admission to an impacted program.

Unlike unaccommodated applicants to locally impacted programs, who may be redirected to another campus in the same major, unaccommodated applicants to systemwide impacted programs may not be redirected in the same major but may choose an alternative major either at the first choice campus or another campus.

## Undergraduate Admission Requirements

### Test Requirements

Freshman and transfer applicants who have fewer than 56 semester or 84 quarter units of transferable college credit must submit scores, unless exempt (see "Eligibility Index," Appendix A), from either the Scholastic Aptitude Test of the College Board (SAT) or the American College Test Program (ACT). If you are applying to an impacted program and are required to submit test scores, you should take the test no later than early December if applying for fall admission or no later than November if applying to San Luis Obispo. Test scores are also used for advising and placement purposes. Registration forms and dates for the SAT or ACT are available from school or college counselors or from a CSU campus testing office. Or, you may write to or call:

The College Board (SAT)  
Registration Unit, Box 592  
Princeton, New Jersey 08541  
(609) 771-7588

American College Testing Program (ACT)  
Registration Unit, P.O. Box 168  
Iowa City, Iowa 52240  
(319) 337-1270

Special institutional administrations of the SAT will be arranged for CSU Stanislaus applicants. Contact the University Testing Office, 667-3157, for additional information.

### Health Screening

All new and readmitted students, born after January 1, 1957, will be notified of the requirement to present proof of measles and rubella immunizations. This is *not* an admission requirement, but shall be required of students by the beginning of their second term of enrollment in the CSU. Proof of measles and rubella immunizations shall also be required for certain groups of enrolled students who have increased exposure to these diseases.

### Freshman Requirements

You will qualify for regular admission as a first-time freshman if you

1. are a high school graduate,
2. have a qualifiable eligibility index (see section below), and
3. have completed with grades of C or better the courses in the comprehensive pattern of college preparatory subject requirements (see "Subject Requirements"). Courses must be completed prior to the first enrollment in the California State University.

### Eligibility Index

The eligibility index is the combination of your high school grade-point average and your score on either the American College Test (ACT) or the Scholastic Aptitude Test (SAT). Your grade-point average is based on grades earned during your final three years of high school (excluding physical education and military science) and bonus points for approved honors courses (see "Honors Courses"). The CSU may offer you early, provisional admission based on your work completed through the junior year of high school and planned for your senior year.

Up to eight semesters of honors courses taken in the last two years of high school can be accepted. Each unit of A in an honors course will receive a total of 5 points; B, 4 points; and C, 3 points.

The index can be calculated by multiplying your grade point average by 800 and adding your total score on the SAT. Or, if you took the ACT, multiply your grade point average by 200 and add ten times the ACT composite score. If you are a California high school graduate (or a resident of California for tuition purposes), you need a minimum index of 2800 using the SAT, or 694 using the ACT; the Eligibility Index Table (reproduced as Appendix A) illustrates several combinations of required test scores and averages.

If you neither graduated from a California high school nor are a resident of California for tuition purposes, you need a minimum index of 3402 (SAT) or 842 (ACT).

Applicants with grade point averages above 3.00 (3.60 for nonresidents) are exempt from the test requirements. However you are urged to take the SAT or ACT since all campuses use test results for advising and placement purposes.

You will qualify for regular admission when the university verifies that you have a qualifiable eligibility index and will have completed the comprehensive pattern of college preparatory subjects and, if applying to an impacted program, meet supplementary criteria.

Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applications eligible under this section.

## Subject Requirements

The California State University requires that first-time freshman applicants complete, with grades of C or better, a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school.

**English, 4 years**

**Mathematics, 3 years :** algebra, geometry, and intermediate algebra.

**U.S. history or 1 year U.S. history and government.**

**Science, 1 year with laboratory:** biology, chemistry, physics, or other acceptable laboratory science.

**Foreign language, 2 years** in the same language (subject to waiver for applicants demonstrating equivalent competence).

**Visual and performing arts, 1 year:** art, dance, drama/theater, or music.

**Electives, 3 years:** selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts, and agriculture.

If you have completed at least 15 college preparatory units, you may offset a one-unit shortage in one subject area by completing an extra unit in another subject area. This option is available from fall 1992 through summer quarter 1995. Although you will be granted regular admission under this option, you are strongly advised to complete all courses in the college preparatory pattern, especially mathematics and English, so that you will be adequately prepared to begin your university studies. Please see your high school counselor for further information.

## Subject Requirement Substitution for Students with Disabilities

Disabled student applicants are strongly encouraged to complete college preparatory course requirements if at all possible. If an applicant is judged unable to fulfill a specific course requirement because of his or her disability, alternative college preparatory courses may be substituted for specific subject requirements. Students who are deaf and hearing impaired, are blind and visually impaired, or have learning disabilities, may in certain circumstances qualify for substitutions for the

foreign language, laboratory science, and mathematics subject requirements. Substitutions may be authorized on an individual basis after review and recommendation by the applicant's department chair in consultation with the director of a CSU disabled student services program. Although the distribution may be slightly different from the course pattern required of other students, students qualifying for substitutions will still be held for 15 units of college preparatory study. Students should be aware that course substitutions may limit later enrollment in certain majors, particularly those involving mathematics. For further information and substitution forms, please call the director of disabled student services at your nearest CSU campus. (Also refer to Appendixes L and M.)

### **Freshman Subject Requirement Phase-in**

CSU has implemented a freshman subject requirement phase-in period with conditional admission for applicants who meet all other admission requirements but are missing a limited number of the required subjects. Students admitted on condition must make up missing subjects after enrolling in the CSU.

The conditional phase-in schedule, with continuous college enrollment since high school graduation is:

**High School Graduation from Fall 1991 to Summer 1992:** Conditional admission in effect with at least 13 (year-courses) of the required 15 units completed, including at least three of the units completed in English and two of the units completed in mathematics.

**High School Graduation from Fall 1992 to Summer 1995:** No conditional admission with full implementation of the 15 (year-courses) unit requirement including one-unit subject substitution provision—only one unit of the specified 15 unit subject requirement may be substituted, by completing an extra unit from another college preparatory subject area. Electives may not be used to offset the missing unit.

*Note: One unit is equivalent to one year of study in high school.*

### **Foreign Language Subject Requirement**

The foreign language subject requirement may be satisfied by applicants who demonstrate competence in a language other than English equivalent to or higher than expected of students who complete two years of foreign language study. Consult with your school counselor or any CSU campus admissions or relations with schools office for further information.

### **High School Advanced Placement Program**

The CSU Stanislaus Advanced Placement Program is intended to supplement the curriculum available to qualified high school students by opening university courses to them, providing these students a gradual transition to higher education. The program allows qualified students to enroll in any lower-division course on a space-available basis, providing all course *prerequisites* are satisfied. *See the Mathematics department regarding prerequisites for lower division mathematics courses.* Regular college credit will be awarded. Submission of a special application form each term is a prerequisite for continued enrollment. Advanced Placement applicants are not required to take the ACT or SAT. Regular registration fees are required. Inquiries should be addressed to the Director of Admissions and Records, who is responsible for approving these applications.

## **Provisional Admission**

CSU Stanislaus may provisionally admit first-time freshman applicants based on their academic preparation through the junior year of high school and the program planned for the senior year. The campus will monitor the senior year of study to ensure that those so admitted complete their senior year of studies satisfactorily, including the required college preparatory subjects and graduation from high school.

## **Honors Courses**

Up to eight semesters of designated honors courses in approved subjects taken in the last two years of high school receive additional points in grade point average calculations. Each unit of A in approved courses will receive a total of 5 points; B, 4 points; C, 3 points; D, 1 point; and none for F grades.

## **Honors at Entrance**

Honors at Entrance is awarded to an admitted undergraduate student whose past record indicates promise of superior academic achievement at CSU Stanislaus. This award ranks equal to or greater than that of scholarships granted by the University and establishes an academic status equivalent to that of qualifying for the University's list of honor students.

## **Admission as an Undergraduate Transfer**

You will qualify for admission as a transfer student if you have a grade point average of 2.0 (C) or better in all transferable units attempted, are in good standing at the last college or university attended, and meet any of the following standards:

1. You will meet the freshman admission requirements in effect for the term to which you are applying (see "Freshman Requirements" section).
2. You were eligible as a freshman at the time of high school graduation and have been in continuous attendance in an accredited college since high school graduation.
3. You were eligible as a freshman at the time of high school graduation except for the subject requirements, have made up the missing subjects, and have been in continuous attendance in an accredited college since high school graduation.
4. You have completed at least 56 transferable semester (84 quarter) units and have made up any missing subject requirements (see "Making Up Missing College Preparatory Subjects" section). Nonresidents must have a 2.4 grade point average or better. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses.

## **Making Up Missing College Preparatory Subject Requirements**

Undergraduate applicants who did not complete the subject requirements while in high school may make up missing subjects in any of the following ways.

1. Complete appropriate courses with a C or better in adult school or high school summer sessions.
2. Complete appropriate college courses with a C or better. One college course of at least three semester or four quarter units will be considered equivalent to one year of high school study.
3. Earn acceptable scores on specified examinations.
4. If you have 56 or more semester (84 quarter) units, you may complete one of the following alternatives:



- a. *1987 or earlier high school graduates:* the CSU general education requirement in communication in the English language (at least 9 semester units) and in mathematics (usually 3 semester units) with a C or better in each course;
- b. *1988 or later high school graduates:* complete a minimum of 30 semester (45 quarter) units, with a C or better in each course, chosen from courses in English, arts and humanities, social science, science, and mathematics of a level at least equivalent to courses that meet general education requirements. Each student must complete all CSU General Education requirements in communication in the English language (at least 9 semester units) and mathematics (usually 3 semester units) as part of the 30 unit requirement.

Please consult with any CSU admissions office for further information about alternative ways to satisfy the subject requirements.

California residents who are military service personnel or veterans may be considered under special admission requirements. Undergraduate transfers over 25 years of age should refer to the "Adult Students" section of this catalog.

### **International Student Admission Requirements**

The CSU must assess the academic preparation of students from other countries. For this purpose, international students include immigrants and those who hold U.S. visas as students, exchange visitors, or in other non-immigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of international students. Verification of your English proficiency (see the section on TOEFL requirement for undergraduate applicants below), financial resources, and academic performance are all important considerations for admission. Academic records from foreign institutions must be on file at least eight weeks before registration for the first term and, if not in English, must be accompanied by certified English translations.

Priority in admission is given to residents of California. There is little likelihood of nonresident applicants, including international students, being admitted either to impacted majors or to those with limited openings.

### **TOEFL Requirement (Undergraduate)**

All undergraduate applicants, regardless of citizenship, who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction must present a score of 500 or above on the Test of English as a Foreign Language. Campuses may require a score higher than 500. CSU Stanislaus requires TOEFL part scores of at least 50.

### **Ineligible Undergraduates**

Undergraduates not admissible under one of the above provisions should enroll in a two-year college or other appropriate institution, or consult the CSU Stanislaus Office of Admissions and Records for advice regarding their situation. Only under the most unusual circumstances will such applicants be permitted to enroll in the University. Permission is granted only by special action and the number of exceptions is limited by law.

## Hardship Petitions

The campus has established procedures for consideration of qualified applicants who would be faced with extreme hardship if not admitted. Petitioners should write the Director of Admissions and Records regarding specific policies governing hardship admission.

## Admission as a Postbaccalaureate or Graduate Student

See "Graduate Programs" section of this catalog.

## Adult Students

As an alternative to regular admission criteria, an applicant who is twenty-five years of age or older may be considered for admission as an adult student if he or she meets the following conditions:

1. Possesses a high school diploma (or has established equivalence through either the Tests of General Educational Development or the California High School Proficiency Examination).
2. Has not been enrolled in college as a full-time student for more than one term during the past five years.
3. If there has been any college attendance in the past five years, has earned a 2.0 (C) average or better in transferable course work.

Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student and will include an assessment of basic skills in the English language and mathematical computation. A student should have completed the majority of high school college preparatory courses, or college remediation of these courses, and demonstrate skills equivalent to eligible students to be admitted as an adult student. Appropriate college entrance examination scores must be submitted at the time of application.

## CSU Visitors Program

Any student entitled to continued enrollment at one of the other 20 campuses of The California State University system may enroll at CSU Stanislaus as a visiting student for a term by following a simplified application procedure. Concurrent enrollment at two CSU campuses may similarly be approved. Students at Stanislaus also may apply for visitor status at another CSU campus. CSU Visitor Status and Concurrent Enrollment application forms are available on request from the CSU Stanislaus Office of Admissions and Records and must be completed and filed before instruction begins.

## Application Fee

A fee of fifty-five dollars (\$55) is charged for processing applications for admission to the University. This fee is non-refundable and non-transferable to a different term.

Students who stop-out for one semester, or drop all their classes prior to Census Date, must reapply for admission. If you attended another college or graduated you must pay a \$55.00 application fee. A student who withdraws after Census Date is considered a continuing student and need not reapply for the following semester. The policy applies to undergraduate and graduate students.

## Transcripts Required

Undergraduate applicants must request two sets of complete official transcripts from (1) the last high school they attended and (2) each college and university at which they registered. These should be sent directly to the Office of Admissions and Records. Transcripts presented by students cannot be accepted unless they are presented in a sealed envelope.

If applicable, General Educational Development (GED) examination results and California High School Proficiency Examination Certificates must be submitted in addition to available high school records.

No determination of admission eligibility will be made until all required transcripts have been received. Official transcripts must include a complete record of all previous high school and college work attempted whether or not the applicant desires credit. A separate official transcript is required from each college attended even though one transcript may show work completed at another college. All records submitted become the property of the University.

## Applicants with Courses in Progress

Applicants who are in attendance at a school or college when transcripts are requested must file a transcript which includes verification of the subjects in which they are currently enrolled. After applicants have completed these subjects, they must notify the school or college to forward two supplementary transcripts showing the final grades for that term.

## Veterans

Veterans who desire to have their military records evaluated for possible credit toward a baccalaureate degree must file a copy of their separation papers (DD 214) or form DD 295 with their application. Submission of these records is required if Veterans educational benefits are being requested.

## Returning Students

Former students of CSU Stanislaus who are returning after graduation or any absence are required to submit two copies of official and complete transcripts covering attendance at any other college since the date of last enrollment at Stanislaus. A former postbaccalaureate student who is not planning to complete the University's degree, credential, or certificate requirements need not submit additional transcripts.

## Summer Session and Extension Registrants

Students seeking to enroll for summer session or extension are not required to file official transcripts. Subsequent admission to the University's degree, credential, or certificate programs will require completion of regular admission procedures.

## Systemwide Tests Required of Most New Students

The CSU requires new students to be tested in English and mathematics *after they are admitted*. These are not admission tests, but a way to determine whether you are prepared for college work and, if not, to counsel you how to strengthen your preparation. You might be exempted from one or both of the tests if you have scored well on other specified tests or completed appropriate courses.

Failure to take either of these tests, as required, before the end of the first semester or second quarter of enrollment may lead to administrative probation which, according to Section 41300.1 of Title 5, *California Code of Regulations*, and CSU Executive Order 393, may lead to disqualification from future attendance.

Information bulletins and registration materials for the EPT and ELM examinations will be mailed to all students subject to the requirements. The materials may also be obtained from the Office of Admissions and Records or the University Testing Office.

## English Placement Test (EPT)

The CSU English Placement Test must be completed by all new *non-exempt* undergraduates prior to placement in appropriate university English course work. Exemptions from the test are given only to those who present proof of one of the following:

- a score of 3, 4, or 5 on either the Language and Composition or the Composition and Literature examination of the College Board Advanced Placement Program;
- a satisfactory score on the CSU English Equivalency Examination;
- a score of 470 or above on the Verbal section of the College Board Scholastic Aptitude Test (SAT-Verbal);
- a score of 22 or above on the ACT English Usage Test (taken prior to October 1989);
- a score of 25 or above on the enhanced ACT English Test (taken October 1989 or later);
- a score of 600 or above on the College Board Achievement Test in English Composition with essay;
- for transfer students, completion and transfer to the CSU of an acceptable college course in English composition of four quarter or three semester units with a grade of C or better.

Information bulletins and registration materials for the EPT will be mailed to all students subject to the requirements. The materials may be obtained also from the Office of Admissions and Records or from the University Testing Office.

The enrollment prerequisite for ENGL 1001, Freshman Composition, requires a total EPT score of 151 or better, successful completion of an appropriate prebaccalaureate composition course, or an approved exemption from the EPT.

## Entry-Level Mathematics (ELM) Examination

The ELM examination tests for entry level mathematics skills acquired through three years of rigorous college preparatory mathematics course work (normally Algebra I, Algebra II, and Geometry). All new undergraduate students must take the test or be exempted from it prior to placement in appropriate university mathematics course work. Specific policies regarding retesting and placement will be determined by the campus. Exemptions from the test are given only to those students who can present proof of one of the following:

- a score of 3 or above on the College Board Advanced Placement mathematics examination (AB or BC);
- a score of 560 or above on the mathematics section of the Scholastic Aptitude Test (SAT-Math);
- a score of 24 or above on the American College Test (ACT) Mathematics Test (taken prior to October 1989);

- a score of 25 or above on the enhanced ACT Mathematics Test (taken October 1989 or later);
- a score of 560 or above on the Collège Board Mathematics Achievement Test, Level 1 or Level 2;
- for transfer students, completion and transfer to the CSU of a college course that satisfies the General Education–Breadth requirement or the Intersegmental General Education Transfer Curriculum requirement in Quantitative Reasoning, provided such a course was completed with a grade of C or better.

## **Intensive Learning Experience (ILE) Program**

All first-time freshman students are automatically part of the Intensive Learning Experience program. Eligible students are identified by their SAT scores (350 or lower in either the Verbal or Mathematics section) or by their scores on the EPT (141 or below). Students in the program receive reading/writing instruction in small classes (12-15 students). Tutoring services are provided at no cost to the student in both mathematics and English. Students in the program also receive extra personal attention in order to enhance the possibility for a successful beginning to their University career. For more information, contact the ILE Director, (209) 667-3361.

## **English as a Second Language (ESL)**

The English as a Second Language program is designed for those students in the University for whom English is not their native language, both international and permanent residents. The three courses in the program provide intensive instruction, along with tutoring, in writing and reading. All courses in the program bear graduation credit. For further information contact the Department of English, (209) 667-3361.

## **Graduation Requirement in Writing Proficiency**

All students must demonstrate competency in writing skills as a requirement for graduation. (See "Writing Proficiency" under "General Requirements for a Degree.") For further information, contact the WPST Coordinator, (209) 667-3247.

## **Evaluation and Acceptance of Credit**

The Office of Admissions and Records will evaluate previous college work as it relates to the requirements of CSU Stanislaus. Each student seeking a degree will be issued an Evaluation of Transfer Credit which will serve as a basis for determining the remaining requirements for the student's specific objective. The evaluation remains valid as long as the student matriculates for the term specified, pursues the objective declared, and remains in continuous enrollment. The student will not be obligated to meet additional graduation requirements unless such requirements become mandatory as a result of changes in the *California Code of Regulations*. (See "Catalog Year for Graduation Requirements" under "General Requirements for a Degree.")

Because of these regulations, you should notify the Office of Admissions and Records if you change the degree objective specified in your evaluation. (See "Declaration or Change of Degree Objectives.")

While students may follow the specific catalog year academic requirements on which their Evaluation of Transfer Credit is based, they will be held responsible for complying with all changes in other regulations, policies, and procedures which may appear in subsequent catalogs.

## **Advanced Placement, Credit by Examination, and Challenge Examinations**

CSU Stanislaus grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of three or better will be granted up to six semester units (nine quarter units) of college credit.

CSU Stanislaus grants credit to those students who pass examinations that have been approved for credit systemwide. These include the Advanced Placement Examinations, CSU English Equivalency Examination, and some College Level Examination Program (CLEP) examinations.

Students may challenge courses by taking examinations developed at the campus. Credit shall be awarded to those who pass them successfully.

Contact the Admissions and Records Office (667-3264) for current credit-by-examination information. See the "Policies and Procedures" section of this catalog for additional information on challenge examinations.

Course credit earned through the University's on-campus Advanced Placement Program for High School Students or from early entrance programs at other colleges will be recognized by Stanislaus as regular credit. (See "Undergraduate Admission Requirements.")

## **Transfer of Credit from a Community College**

Transferable courses are defined as those officially certified as baccalaureate level by the regionally accredited college at which the courses were taken. No upper-division credit may be allowed from a two-year college, nor may credit be allowed for professional courses in education.

The University accepts up to a maximum of 70 semester units of credit from two-year colleges. You may complete additional lower-division courses at a four-year college for full credit, even after 70 units have been earned. You may be admitted as an upper-division student even if you have not completed General Education requirements. Because a minimum of two years of upper-division study is normally required for graduation, it is advisable to transfer as soon as possible after you have attained 56 units.

## **Credit for Noncollegiate Instruction**

CSU Stanislaus grants undergraduate degree credit for successful completion of noncollegiate instruction, either military or civilian, appropriate to the baccalaureate, that has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The number of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

Credit allowed for such instruction will be designated as provisional. Regular credit may be granted upon adviser recommendation, departmental endorsement, and completion of 24 semester units at CSU Stanislaus with a 2.0 (C) grade point average or better.

## **Course Work Completed Ten Years Before Enrollment**

Course work completed ten years before enrollment at CSU Stanislaus is designated provisional credit, primarily to alert the student and academic adviser that

course scheduling adjustments may be warranted. Regular credit for this course work will be allowed based on adviser recommendation after satisfactory completion of 24 units at the University.

## Credit for Extension and Correspondence Courses

The maximum credit for correspondence and extension courses which may be allowed toward the bachelor's degree is 24 semester units.

## Workshop Credit

Workshop credit does not substitute for course credit in a credential sequence and will not be applied toward the General Education, major, or minor requirements of the University. Such credit may be applied toward a bachelor's degree only as elective units. Workshops at CSU Stanislaus numbered 4920 to 4929 are open to both undergraduate and postbaccalaureate students.

## Veterans Services

The Veterans Office, Library 110H, (209) 667-3180, offers assistance in securing veterans benefits, solving transition problems and procedures when first enrolling at the University, obtaining tutoring, and handling financial problems. Information and referral services are provided for a wide range of other veteran-related needs.

Veterans should contact the Veterans Administration to ascertain their eligibility under the various assistance programs.

Veterans or dependents of veterans should contact the Veterans Office for information regarding VA or Cal-Vet benefits, application procedures, or other related services.

## Educational Assistance for Veterans

Applications for VA and Cal-Vet educational benefits must be made through the Veterans Office. The Veterans Office forwards all applications and necessary VA forms to the Veterans Administration for final claim determination. Please note unit load requirements below.

## Unit Load Requirement

For veterans and eligible dependents, all undergraduates are classified as full- or part-time according to the unit totals listed below:

Classification	Fall/Spring Units	Winter Units
Full-time	11.0 or more	4.0 or more
3/4	8.0-10.5	2.0-2.5
1/2	6.0-7.5	1.5

Postbaccalaureate students are classified as full- or part-time according to the unit totals listed below:

Classification	Fall/Spring Units	Winter Units
Full-time	7.0 or more	2.0 or more
3/4	5.5-6.5	NA
1/2	4.0-5.0	NA

## Servicemembers Opportunity Colleges

California State University, Stanislaus is a member of Servicemembers Opportunity Colleges (SOC), a group of over 400 colleges and universities providing

postsecondary education to members of the military throughout the world. As an SOC member, CSU Stanislaus carefully evaluates and assigns credit for course work undertaken through each of the armed services, the Office of the Secretary of Defense, and a consortium of thirteen leading national higher education associations.

### **Military Tuition Assistance**

Military tuition assistance for Castle Air Force Base personnel will not be authorized after the CSU Stanislaus late registration period ends. Questions should be directed to the Castle Air Force Base Education Services Office, (209) 726-2561.

### **Credit for Military Service**

Undergraduate students who have one year of active duty military service will receive six semester units of credit (and active duty military reservists will receive four semester units of credit) toward admission, of which two units of Health and one unit of Physical Education Activity will be awarded in GE Area E. Courses taken at military service schools, if appropriate for a baccalaureate degree, may also yield credit. Students seeking Veterans educational benefits are required to promptly submit all military records pertaining to training and experience. For veterans not requesting benefits, submission of these records is optional. Separation papers (DD 214) or form DD 295 and appropriate military community college transcripts verifying such experience must be filed with the Office of Admissions and Records before credit will be allowed.

### **Preparation for Preprofessional Studies**

The plan of undergraduate study of CSU Stanislaus emphasizes a liberal education in preparing for professional or vocational specialization. Students preparing for a professional specialization have opportunities to do so by selecting, in consultation with an appropriate preprofessional adviser, the kind of curriculum that best meets the requirements set by the profession they wish to enter.

### **Premedical and Health Professions Committee**

The majority of students entering medical and dental schools in the United States do so after acquiring a B.A. or B.S. degree at an undergraduate college. Possession of an undergraduate degree is especially worthwhile, since professional schools do not offer liberal arts subjects.

Students enrolled at CSU Stanislaus may prepare for admission to professional schools in medicine, veterinary medicine, dentistry, pharmacy, optometry, and other health professions such as physical therapy. With the appropriate selection of courses, they may also qualify to apply for training in a medical laboratory and become certified medical laboratory technicians. The University offers pre-professional course work for areas such as laboratory technology, cytotechnology, nursing, and other paramedical and health-related fields. Preprofessional Studies information should be obtained from the appropriate department.

The Premedical and Health Professions Committee has been established to organize programs of study qualifying students for admission to professional schools. Students should register with the Committee as soon as possible by contacting the Committee Chair James C. Hanson (209) 667-3476. A Committee member will prepare a suggested basic program of courses to supplement the curriculum outlined by the major adviser.



Most undergraduate majors are appropriate for a preprofessional student as long as certain basic subject areas are included in the program. For specific professional school requirements, refer to special sources such as "Medical School Admissions Requirements" (a publication of the Association of American Medical Colleges), and consult with the Committee.

The Committee will compile data on each student and prepare a letter of evaluation to be sent at the student's request in support of applications to professional schools. It is important to contact the Committee as soon as possible (preferably before interview with the major adviser) so the student can be advised properly. Registration with the Committee does not commit the student to any particular program or career.

Students especially interested in the areas of medicine, pharmacy, optometry, dentistry, and veterinary medicine are advised to complete, as a minimum, one-year sequences in English composition, biological sciences (ZOOL 1050 and BOTY 1050), chemistry (CHEM 1100, 1110), and physics (PHYS 2100, 2110), during their freshman and sophomore years. Mathematics to the level of precalculus (MATH 1100) should be attained by this time. Normally dental and medical school admission tests are taken in the spring of the junior year with the following additional preparation completed or in progress: CHEM 3010/3030, 3020/3040; and either ZOOL 3130, 3150 or BIOL 3310. MATH 1410 or 1910 is encouraged as preparation for these examinations also.

Additional recommendations will be provided through advisement from the Premedical and Health Professions Committee and the major adviser.

AMCAS (American Medical College Application Service), MCAT (Medical College Admission Test), DAT (Dental Admission Test), OAT (Optometry Admission Test), and VAT (Veterinary Admission Test) application forms, packets and information are available through the Committee.

## Preprofessional Law Program

Applicants for admission to most law schools are expected to have a B.A. or B.S. degree and to have taken the Law School Admission Test. No single "prelaw" major is required, or in most instances recommended, since the successful study of law is more often related to the ability to grasp and solve difficult intellectual problems and to employ disciplined work habits, than it is to any narrow, specialized field of study.

Several broad objectives of prelegal education are set forth by the Association of American Law Schools. These include the oral and written command of language; an understanding and appreciation of social, political, and economic values, institutions, problems, and frames of reference; and an ability for creative, innovative, critical, and analytical thinking.

Since no one major is mandatory, the student should select one which emphasizes the areas mentioned above (English, economics, history, philosophy, political science, and social sciences are particularly appropriate). In addition, the student should consult with the prelaw adviser in the Politics and Public Administration Department.

For additional information, see the bulletins or catalogs of various law schools or the *Official Guide to U. S. Law Schools*, current edition, prepared by the Law School Admission Council and the Association of American Law Schools. This handbook may be obtained at most university bookstores or ordered from Law Services, Newtown, PA 08541. Also, consult adviser John T. Wold at (209) 667-3388.

## **Internships**

Many academic departments at CSU Stanislaus offer internship opportunities to undergraduate and graduate students. Placements in a variety of private, non-profit, and public agencies are designed to encourage both pre-professional training and the integration of field and classroom experiences. Students should contact their academic advisers for additional information.

## **Cooperative Education Program**

Cooperative Education at California State University, Stanislaus is part of a national program which provides students with paid work experiences directly related to their major field of study and career objectives. Sophomores, juniors, and seniors with a GPA of at least 2.3 may be placed either in "alternating" assignments where they work full-time for a semester while enrolled for academic credit, or in "parallel" assignments where they work part-time and attend school concurrently. These job placements are coordinated by University faculty. Up to eight hours of academic credit earned through Co-op courses may be applied to graduation requirements.

Co-op students thus have opportunities to gain practical experience which complements their academic study and permits them to explore actual career options before graduation. In these assignments co-op students earn competitive income and often are subsequently hired full-time by their employers. Placement of students in Cooperative Education appointments is the responsibility of the appropriate department through which the student registers for Cooperative Education Credits.

## **Registration and Enrollment in Courses**

Registration is the final step in the matriculation process. A Schedule of Classes listing courses offered is available before the academic advising period for each term. When you have been admitted to CSU Stanislaus, make an appointment to see an academic adviser during the academic advising period, at which time you will receive guidance on course selection. You may want to attend a new student orientation for a more comprehensive introduction to the University (contact the Academic Advising Center, (209) 667-3304, for additional information).

Late registrants may find themselves handicapped in arranging their programs and must pay a \$25.00 late registration fee, as required by state law. Late fees are determined by students' registration appointment.

If a student unofficially drops a course or leaves CSU Stanislaus without first reporting to the Office of Admissions and Records to make the change official, the student may receive grades of U, F, or NC. If the student attends a course without officially adding it, the student will receive no credit for the course.

Students who do not attend the regularly scheduled class meetings during the first day of class after registration may be refused entrance to the class by the instructor.

## California Articulation Number

The California Articulation Number (CAN) System identifies some of the transferable, lower-division, introductory, preparatory courses commonly taught within each academic discipline on college campuses.

The system assures students that CAN courses on one participating campus will be accepted "in lieu of" the comparable CAN course on another participating campus. Example: CAN ECON 2 on one campus will be acceptable for CAN ECON 2 on another participating campus. Each campus retains its own numbering system.

Although the system is in the development stage, it is expected that most campuses throughout the state will qualify to participate and use CANs. Check with the University Articulation Officer, 667-3081, for lists of participating campuses and courses.

The California Articulation Numbers are listed parenthetically by the course description in this catalog. At present, the following are CSU Stanislaus qualifying courses:

CAN COURSE	CSUS COURSE	CAN COURSE	CSUS COURSE
AJ 2	CJ 2250	GEOL 2	GEOL 2100
AJ 4	CJ 2280	GEOL 4	GEOL 2200
AJ 6	CJ 2260	GOVT 2	PSCI 1201
AJ 8	CJ 2270	HIST 2	HIST 1010
ANTH 2	ANTH 2080	HIST 4	HIST 1020
ANTH 4	ANTH 2060	JOUR 2	JOUR 2150
ANTH 6	ANTH 2090	JOUR 4	SPCH 2200
ART 2	ART 2515	MATH 2	MATH 1000
ART 4	ART 2520	MATH 4	MATH 1030
ART 6	ART 1340	MATH 16	MATH 1100
ART 8	ART 1010	MATH 18	MATH 1410
ART 14	ART 1100	MATH 20	MATH 1420
ART 16	ART 1200	MATH 22	MATH 2410
BIOL 4	ZOOL 1050	MATH 26	MATH 2510
BIOL 6	BOTY 1050	MATH 30	MATH 1910
BIOL 10	ZOOL 2250	PHIL 2	PHIL 1010
BUS 2	ACC 2110	PHIL 4	PHIL 2400
BUS 4	ACC 2130	PHIL 6	PHIL 2100
BUS 6	CIS 2000	PHYS 2	PHYS 2100
BUS 8	BLW 2060	PHYS 4	PHYS 2110
CHEM 2	CHEM 1100	PHYS 8	PHYS 2250 & 2252
CHEM 4	CHEM 1110	PHYS 12	PHYS 2260 & 2262
CSCI 4	CS 1700	PSY 2	PSYC 2010
CSCI 8	CIS 2010	SOC 2	SOC 1010
CSCI 10	CS 2700	SPCH 4	SPCH 2000
DRAM 8	DRAM 2500	STAT 2	MATH 1600
ECON 2	ECON 2500		
ECON 4	ECON 2510		
ENGL 2	ENGL 1001		
GEOG 2	GEOG 2010		
GEOG 4	GEOG 2020		

## Fees and Financial Aid

### Schedule of Fees

A \$55.00 non-refundable and non-transferable application fee is payable by check or money order at the time application is made. The following reflects applicable fees and nonresident tuition. (Fees are subject to change without advance notice.)

Total registration fees for California residents are approximately \$1,434.00 per academic year; \$654.00 per semester; \$126.00 for Winter Term. Total registration fees and tuition for nonresidents are approximately \$8,322.00 per academic year (\$3,606.00 per semester; \$1,110.00 for Winter Term).

### Registration and Fees

Payable at time of registration. No individual can be admitted to class prior to payment of all required fees.

#### State University Fee

0 to 6.0 units	\$319.00
6.1 or more units	595.00
Winter Term	118.00

#### Associated Students Fees\*:

Fall or Spring Semester	16.00
Winter Term	3.00
Summer Session	2.00

#### University Union Fees:

Fall or Spring Semester	31.00
Winter Term	3.00
Summer Session	9.00

#### Health Services Fees

Fall or Spring Semester	30.00
Winter Term	10.00

#### Instructionally Related Activity (IRA) Fee:

Fall or Spring Semester	9.50
Winter Term	1.00

#### Other Fees and Charges

Nonresident Tuition per unit, no maximum	246.00
Application Fee (non-transferable and non-refundable)	55.00
Late Registration Fee (non-refundable)	25.00
Graduation Fee	15.00
Diploma Fee	10.00
Transcript of Record	4.00
Failure to meet administratively required appointment or time limit	2.00

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\*See "Procedures for the Establishment or Abolishment of a Student Body Fee," Appendix D.

Library books or materials lost or damaged:	
Fine plus Replacement Cost plus	6.00
Summer Session per unit	115.00
Extension Lecture and Discussion Courses per unit:	105.00
Parking Fees:	
Autos, nonreserved spaces:	
Students, per semester	43.00
Winter Term	22.00
Motorcycles, designated spaces:	
Students, per semester	11.00
Winter Term	6.00

Duplicate Degree Tuition (DDT) is a new fee charged to any student who has earned a degree equivalent to or higher than the degree awarded by the program in which the student is enrolled (e.g., second baccalaureate or second master's degree). Submission of an Affidavit of Eligibility may exempt from DDT, for a specific term, the following categories of students: dislocated workers; displaced homemakers; recipients of AFDC, SSI, SSP, or other general assistance program benefits; and certain non-resident students. Postbaccalaureate students may consult the Graduate Studies Office, (209) 667-3120, regarding program enrollment status, change of educational objective, and DDT exemptions.

No fees of any kind shall be required of or collected from those individuals who qualify for such exemption under the provisions of the Alan Pattee Scholarship Act.

**Note:** *The nonresident tuition fee is payable by all students who have not been legal residents of the State of California for at least one year immediately preceding the residence determination date.*

*Tuition payable by nonresident and foreign visa students is in addition to fees required of residence students, except for enrollment in extension or summer session. Questions regarding residency classification for admission eligibility and tuition purposes should be directed to the Residency Clerk in the Admissions and Records Office.*

*Initial determination of residence status is made by the University officials prior to or at the time of registration, and fees must be paid at registration. Full refund of nonresident fees paid will be made if final determination by the University legal adviser indicates that a student is a legal resident.*

*For more detailed information on residency determination and exceptions to tuition, refer to "Determination of Residence," Appendix C.*

## Refund of Fees

Details concerning fees which may be refunded, the circumstances under which fees may be refunded, and the appropriate procedure to be followed in seeking refunds may be obtained by consulting Section 42201 (parking fees), 41913 (nonresident tuition), 42019 (housing charges), and 41802 (all other fees) of Title 5, *California Code of Regulations*. In all cases it is important to act quickly in applying for a refund. Information concerning any aspect of the refund of fees may be obtained from the Director of Administrative Services. (See also "Refund Regulations," Appendix E.)

## **Financial Aid**

The Financial Aid Office, Library Building Room 110, (209) 667-3336, administers federal and state financial aid programs available to help students meet their educational expenses. New students should review the Financial Aid information for 1993-1994 contained in the Common Admission Application. All applicants must complete the Student Aid Application for California (SAAC) which may be obtained from high school counselors and college financial aid offices. Upon receipt of the SAAC, the Financial Aid Office will request additional information. Application deadlines are observed, and students are encouraged to complete their applications as soon as possible, since funds are limited.

### **Financial Aid Programs Available to Qualified Students**

#### **Pell Grant**

The Pell Grant Program is a federally funded program available to qualified undergraduate students. These grants are designed to be the base award in a student's financial aid package to which other funds may be added according to total eligibility.

#### **Supplemental Educational Opportunity Grant (SEOG)**

These awards are federally funded and are granted to undergraduate students who demonstrate the greatest financial need.

#### **State University Grant**

These state-funded awards cover a portion of the fees paid by eligible undergraduate and graduate students who are California residents.

#### **State Educational Opportunity Program Grant**

Students who are admitted to the University through the Educational Opportunity Program and have financial need may be funded under this state program.

#### **College Work Study Program**

Eligible students may be able to work on or off campus to earn all or a portion of their financial aid awards.

#### **Perkins Loan (formerly National Direct Student Loan: NDSL)**

The Perkins Loan is a federal program providing long-term, low-interest loans in amounts governed by established eligibility and availability of funds. Five percent simple interest is charged and repayment begins six months after the date the borrower ceases to maintain at least half-time enrollment. In some cases deferment of payment or full cancellation of the loan and interest may be possible.

#### **Stafford Loan (formerly California Guaranteed Student Loan Program: CGSLP)**

Loans are made available to students through private lending institutions such as banks, savings and loans, or credit unions. Repayment of loans and eight percent simple interest is deferred until six months after the date the borrower ceases to maintain at least half-time enrollment. Further information and application materials are available at the Financial Aid Office.

### **California Loans to Assist Students (CLAS)**

Loans are made through private lenders to parents of dependent students, to graduate or professional students, and to qualified independent undergraduate students. Repayment of loans at twelve percent simple interest begins within sixty days of disbursement for parent borrowers, but it is deferred for student borrowers until they cease full-time enrollment. Further information and application materials are available at the Financial Aid Office.

### **Scholarships**

On-campus scholarship funds are provided through the generosity of individual donors and private agencies or corporations. The funds are generally awarded on the basis of demonstrated academic excellence. Some of these awards are limited to students in particular majors, community college transfers, or students entering directly from high school. Additional information on scholarship availability may be obtained at the Financial Aid Office.

### **Student Assistant Program**

This work program is funded through the state budget and is administered by the various academic departments on campus.

### **Short-Term Loan Fund**

Short-term loans to meet educational expenses are available to enrolled students. A maximum of \$200 may be borrowed with repayment in sixty days.

Students interested in more information regarding financial aid programs or application procedures should inquire directly to the Financial Aid Office.

### **Alan Pattee Scholarships**

Children of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of law enforcement or fire suppression duties are not charged fees or tuition of any kind at any California State University campus, according to the Alan Pattee Scholarship Act, *Education Code* Section 68121. Students qualifying for these benefits are known as Alan Pattee scholars. For further information contact the Office of Admissions and Records, which determines eligibility.

### **Debts Owed to the Institution**

Should a student or former student fail to pay a debt owed to the institution, the institution may withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt until the debt is paid (see Title 5, *California Code of Regulations*, Sections 42380 and 42381). For example, the institution may withhold permission to receive official transcripts of grades from any person owing a debt. If a student believes that he or she does not owe all or part of an unpaid obligation, the student should contact the campus Administrative Services office. The Administrative Services office, or another office on campus to which the student may be referred by the Administrative Services office, will review the pertinent information, including information the student may wish to present, and will advise the student of its conclusions with respect to the debt.

## Student Affairs

The University provides services to address the student's need for support services and educational, social, cultural, and recreational activities. A fuller description of many of the services listed below is found in *A to Z: A Guide to Opportunities and Services for Students*, available free of charge to all registered students.

### Counseling, Career Development, and Academic Support Services

#### Academic Advising

Classroom Building 116, (209) 667-3304

Once admitted to the University, students may obtain an assigned faculty adviser by visiting their major department. Students who have not declared majors receive advisement from the Academic Advising Center. If you are uncertain about choice of major or vocational goals, please seek assistance from your faculty adviser or the Counseling/Career Development Center.

Although advisers can assist you in planning your entire educational program, you are responsible for meeting all course prerequisites and all requirements for your degree or credential. Specific days for programmatic advising are designated each semester in the Academic Calendar to provide a time for you to consult with your adviser. In addition, you may make appointments throughout the academic year to discuss your educational progress and goals.

#### Orientation Programs

Entering students are invited to attend one of the University's New Student Orientations. Held throughout the year, these all-day programs provide a warm welcome and the opportunity to be advised by knowledgeable University faculty members. The orientations also give freshmen and transfers the chance to meet friendly upper-classmen, to tour the campus, and to find out about the many services, activities, and special programs available to Stanislaus students. Contact the Academic Advising Center for more information.

#### Adult Reentry Programs

Classroom Building 116A, (209) 667-3304

These programs are established for adults who have deferred their formal education for five years or more and wish to return to school. Adult reentry provides a variety of services including: orientation to the university environment, pre-admission academic advising and assessment, counseling and testing services, assistance with admission procedures, career-planning, and continuing support and encouragement. The Senior Scholar Program grants a fee reduction to reentry students over the age of 60.



## **Counseling/Career Development/ Academic Support Services Center**

**Student Services Building 113, (209) 667-3381**

### **Career Development Programs**

Because a career decision requires considerable time and effort, all students (not just upper division students) are encouraged to use the services available through the Counseling/Career Development Center. Counselors employ a variety of tools, including interest inventories and ability and personality tests, to assist students in relating their educational background and personal skills and values to career and life goals. Services include:

### **Career Counseling**

Counselors help students develop complementary life and work goals. Students learn to identify career interests and conduct a job search; they acquire important formation about the world of work.

### **Career Information Library**

The library contains a rich assortment of occupational literature, corporate information, videotapes of career options, job search techniques, and interview skills. Listings of job openings are updated daily to provide current information about career opportunities. Another source of information about current job openings is the bulletin board next to the Student Employment Service Office (Student Services Building 113).

### **Career Workshops**

Workshops are offered regularly on "Effective Job Search Techniques," "Resume Writing," "Developing Interview Skills," and other topics to students interested in exploring careers or seeking jobs.

### **Career Days**

Throughout the academic year, speakers from many career areas meet with students to describe their fields. These representatives share information about required education, compensation, duties, methods of entering the field, and advancement opportunities. They are available to answer students' career questions.

### **Career Fair/Summer Job Fair**

Throughout the year, speakers from many fields meet with students to describe career opportunities. The campus hosts a Spring Career Fair, with representatives from private companies and public agencies, who describe full-time career opportunities and summer employment. The Center offers a workshop on "How to Find a Summer Job" in late spring.

### **On-Campus Job Recruitment**

During the year, employers visit the campus to interview seniors and graduate students seeking employment in business, education, public agencies, and the military, and answer career questions. Representatives of graduate schools are available as well.

### **Guidance Information System**

The computer-based Guidance Information System provides information on occupations, graduate schools, and financial aid and scholarships.

### **Pathfinders**

Pathfinders are alumni and friends of the University who help students explore career fields by hosting them at their places of employment, allowing students to observe work activities, or sharing information on careers with students.

### **Placement File**

The placement file details the student's personal, educational, and employment background. It contains letters of evaluation from professors and employers. Students typically initiate their self-managed placement files in the final year of studies.

### **Student Employment Service**

The Student Employment Service helps students find part-time and temporary employment. Interested students should complete an application and request assistance from the Student Employment Specialist. Part-time and temporary jobs are listed on the bulletin board outside Student Services Building Room 113.

### **Career Placement Information**

The Career Development Center furnishes upon request information about employment of students graduating from courses of study leading to particular career fields. Data include average starting salaries and percentage of students obtaining employment.

## **Counseling Programs**

### **Academic Achievement Program**

The Academic Achievement Program assists students with academic, personal, or motivational problems that could jeopardize their academic standing. An individualized plan is developed with each student which may include personal counseling, career counseling, tutoring, study skills development, and personal, academic, or career related workshops.

### **Counseling/Career Development Workshop**

This series of workshops assists members of the campus community with personal, career, and professional development. Workshops include: assertiveness training; understanding different personality types; dealing with depression; stress management; effective communication; time management; dealing with personal loss; date rape; workshops for adult children of alcoholics or dysfunctional families; coping with burnout; dealing with difficult people; self-esteem.

### **Legal Referral Program**

The Legal Referral Program assists the student in need of legal advice by providing a half-hour of free consultation with an area attorney. Any subsequent cost is the responsibility of the student who negotiates additional services and costs with the attorney. The student must meet with a counselor before an appointment will be made with an attorney.

## **Personal Counseling**

Personal counseling services assist students with concerns related to marriage and family, emotional well-being, male-female relationships, drug-related problems, and other matters of a personal nature. In addition, students may receive counseling to improve self confidence and increase the probability of academic and personal success.

## **Disabled Student Services**

**Student Services Building 111, (209) 667-3159**

The University provides specialized support services for students with disabilities so that they can realize educational and vocational goals. Services are individualized to support the student's independence. They include: assistance with registration, privileged parking, orientation to campus, assistance in securing housing, tutors and notetakers, and liaison with faculty, University offices, and off-campus agencies.

## **International (Foreign) Student Program**

**Student Services Building 110, (209) 667-3158**

The International (Foreign) Student Program serves the personal, administrative, and educational needs of CSU Stanislaus students from other lands. The foreign student adviser represents international students, helps to establish and promote intercultural and personal relationships. In addition, the adviser helps international students interpret and meet immigration regulations. Other services offered through the program include counseling on such matters as financial planning, part-time employment opportunities, housing, and personal adjustment to the university and community environments.

## **Testing Services**

**Student Services Building 111, (209) 667-3157**

The Testing Office assists students by testing aptitude, academic achievement, reading proficiency, study habits, vocational interest, and personality. Through Credit by Examination, students with prior training and experience may obtain credit; students may challenge certain University courses by examination. The office has information on all national testing programs, such as the Graduate Record Examinations, Medical College Admission Tests, and the National Teacher Examinations.

The Testing Office also administers the Supplementary Student Health Insurance Program. Application forms are available in the office.

## **Faculty Mentor Program**

**Classroom Building 136, (209) 667-3021**

The Faculty Mentor Program is sponsored by the Chancellor's Office to provide students from historically under-represented groups in higher education a supportive educational environment. This program encourages individual "mentoring relationships" in order to foster a student's personal and professional growth.

The purpose of the Faculty Mentor Program is to create an extended learning environment in which faculty build a "mentoring relationship" with a select group of California State University, Stanislaus students. Students who interact frequently with faculty tend to be more satisfied with their educational experience than those who have less or no contact with faculty. Therefore, faculty can be instrumental in assisting students to explore goals and choose appropriate educational offerings

consistent with those goals. The Faculty Mentor Program is voluntary, but the students willing to participate and make the investment of a few hours each week will receive a unique opportunity for growth by working closely with faculty mentors.

## **Special Programs**

Special Programs make college attendance a reality for under-represented ethnic, first-generation college, low income, or limited English speaking students. Special Programs provide a wide range of special admissions, transition assistance, and academic support services to help students succeed in college.

If you are interested in more information about Special Programs, please call or drop by the offices listed below.

### **Educational Opportunity Program (EOP)**

**Student Services Building 145, (209) 667-3108**

The Educational Opportunity Program (EOP) provides special admission to low income and minority students who are at a disadvantage because of poor academic preparation or inadequate financial resources. EOP applicants apply jointly for admission to the University and to the EOP program.

Students admitted under the auspices of EOP are eligible for special support services including academic advising, tutoring, assistance with study skills, counseling, and special workshops. EOP also provides financial aid grants to eligible students.

### **Student Support Services (SSS)**

**Student Services Building 145, (209) 667-3220**

The Student Support Services program assists low income, first generation college-bound, and disabled students with academic support services. These services include: academic advisement, tutoring (one-to-one and small group), counseling, and workshops on such topics as taking tests, study skills, time management, and preparation for ELM/EPT and CBEST. Students must satisfy eligibility requirements for admission to the University in order to be admitted to the program.

### **Summer Bridge Program (SBP)**

**Student Services Building 145, (209) 667-3108**

The Summer Bridge Program assists students in making the transition from high school to the more academically challenging environment of the university. Summer Bridge offers an intensive four-week residential program of classes, seminars, tutoring, and academic advising as an introduction to college life.

Upon admission to the University, students who are selected for the Summer Bridge program are notified by the EOP Office. Successful completion of the program may be a condition of admission for some EOP students. Admission to Summer Bridge is limited.

### **Health Services**

**Health Center, (209) 667-3396**

The University provides basic health services to all registered students through the Health Center. Staffing in the Health Center consists of a physician, a nurse practitioner, medical technologist, pharmacist, and clinical aides. The Health Center provides basic health care, including diagnosis, treatment of ambulatory illnesses and

injuries, birth-control and family planning, and allergy injections. Health problems not within the scope of the medical staff are referred off campus to physicians or medical centers. All referrals are the financial responsibility of the student.

### **Supplemental Health Insurance**

All students should carry supplemental health insurance to cover major accidents, illnesses, or medical referrals not handled by the Health Center. The University offers an inexpensive group policy; provision can be made for coverage of dependents. Forms are available in the Testing Office, Student Services Building 111, (209) 667-3157.

### **Student Life**

**Student Services Building 134, (209) 667-3144**

The University provides programs and activities to enhance the quality of campus life outside of the classroom, from student government and clubs to inter-collegiate and intramural athletics.

### **On-Campus Student Housing**

**Residential Life Village, (209) 667-3675**

The newly constructed (opens September 1993) Residential Life Village is centrally located on campus, near the University Union, dining hall, classrooms, laboratories, computer rooms and library. Students may choose from a variety of living arrangements; there are two and four-bedroom apartments and residential suites for 260 students. Each suite or apartment has living room, bathroom, and one or two-person bedrooms; balconies overlook a central courtyard. The Village is designed to provide privacy and security for residents. Amenities include outdoor study areas, recreation room, laundry facility, computer lab, swimming pool, and covered bike storage.

### **Off-Campus Student Housing**

**Residential Life Village, (209) 667-3675**

Students may obtain brochures and area maps from the Housing and Residential Life Office. Apartment and apartment-mate listings are posted in the office. The office provides assistance with rental rates, deposits, and landlord conflicts. Call (209) 667-3575 for information concerning housing on or off-campus.

### **Intramural, Leisure, and Sport Activities/Wellness Program**

The Recreational Sports Program offers an extensive selection of intramural sports and activities for all men and women at CSU Stanislaus. Students may participate in organized events such as basketball, frisbee, self-defense, swimming, volleyball, weight-lifting, football, softball. Physical education facilities, which include open gym, weight room, and the pool, are available for student use. For further information telephone (209) 667-3675. For information on the Wellness Program, call (209) 667-3191.

### **Inter-collegiate Athletics**

The University participates in eleven inter-collegiate sports at the NCAA Division II level, and is a member of the Northern California Athletic Conference. Seven men's sports are sponsored — basketball, baseball, golf, soccer, cross country, and track and field. The five women's sports are basketball, softball, volleyball, cross country, and track and field.

The University's athletic teams competed at the NCAA Division.III level for fourteen years beginning with the 1975-76 seasons and, with twelve NCAA golf championships, two baseball championships, and over 160 athletes earning All-American honors the program has become nationally recognized for its dedication to excellence. Within the conference CSU Stanislaus' athletes have won numerous team and individual awards, and on five occasions a Stanislaus athlete has been named Student-Athlete of the Year for the entire league, an honor that places equal emphasis upon academic and athletic achievements.

## **Student Activities**

### **University Union, (209) 667-3191**

Student recreational, social, and cultural programming originates from the University Union (209) 667-3776) and the Associated Students, Inc. (209) 667-3543), whose offices are located on the second floor of the University Union. The Student Activities office (209) 667-3191) assists students in planning and presenting activities such as dances, comedy nights, recreational classes, speakers, concerts, outdoor recreation, special events, and the Wellness Program. The Associated Students, Inc., administers campus clubs and Warrior Week. Activities are open to all members of the campus community.

### **Associated Students, Inc.**

#### **University Union, (209) 667-3543**

The Associated Students, Inc., is the official student government of the University, providing services and programs not included in the University's regular instructional program. All students pay the student activity fee and are eligible to participate in all student-sponsored programs and activities and to run for student office.

The Associated Students, Inc. is responsible for managing and allocating student fee funds to student programs, services and organizations. Elections are held yearly and all qualified students may run for office or apply to serve in appointed or volunteer positions.

## **University Union**

### **University Union 202A, (209) 667-3776**

The University Union is a student-funded auxiliary organization established to provide a campus center for social, cultural, and intellectual activities. The Union's current facility houses the Kiva Bookstore and Kiva Computers, Center for Learning Assistance and Retention, Event Center, Game Room and Arcade, conference rooms, Hide-Away Lounge, TV Lounge, Union Market Cafe, KCSS Radio Station, *The Signal* newspaper, Multi-Cultural Center, Information Center, Associated Students, Inc., and University Union offices and club work space.

ULTRA Productions (University Union Leaders Targeting Recreational Activities) is the programming committee for the University Union. ULTRA sponsors movies, lectures, entertainment, and many special events. Events include the annual Dinner-Theater show, Travel Faire, Zoobilee Zoo, and many others.

Policy is set by the University Union Board of Directors. The ten-member student/faculty/staff/alumni board meets regularly, and meetings are open to the campus community. In addition, student committees assist the Board in such areas as programs, budget and finance, and policy.

# Policies and Procedures

*Note: Students are held individually responsible for knowing and complying with these regulations.*

## General Education Credit

The Schedule of Classes and the catalog designate the courses offered at CSU Stanislaus which are applicable to General Education requirements. Only courses so designated are approved for credit applicable to General Education. All enrolled undergraduates should therefore refer to the current catalog section entitled "General Education," which lists acceptable General Education courses.

## Class Attendance

Regularity in attending classes is assumed. Students are allowed no specified number of absences, but legitimate absences for which instructors will make allowances are illness, accident, death in family, and university activities which the student is obligated to attend. In such cases, the instructor may give the student opportunity to make up the work missed.

## Auditors

With the instructor's permission, admitted students may register in courses as auditors without credit. Enrollment will be permitted only after students otherwise eligible to enroll in the course on a credit basis have had an opportunity to do so. To add a class for audit, a registered student must file a Program Change card at the Office of Admissions and Records window. Auditors must pay the same registration fees as other students and may not change their registration to obtain credit after the last day to add a course. A student registered for credit may not change to audit status after the last day to drop a course. An auditor may participate in class activities or take examinations with the instructor's consent. Regular class attendance is expected. An audited course will not be posted on the permanent academic record unless the student has formally registered for the course and, in the opinion of the instructor, has attended a substantial number of class meetings.

## Concurrent Enrollment

Any matriculated student pursuing a degree or credential at CSU Stanislaus who desires to enroll for a course at another institution should secure prior approval from the major adviser if credit is to be accepted. Acceptance of credit depends on policies set forth in the catalog section on "Evaluation and Acceptance of Credit," and it is the student's responsibility to find out whether a concurrent enrollment course will be accepted. Application forms are available from the Office of Admissions and Records.

## Official Program Limits

A student who wishes to register for more than 16 units during a fall or spring semester must obtain the approval of the major department chair at the time of registration. Five units is the maximum for which a student may enroll during a Winter Term. Additional units in a Winter Term requires the approval of the College/School Dean.

Units taken for Credit by Examination do not count toward excess units; however, concurrent enrollment courses, audited courses, and courses in which a student is making up an incomplete grade are all counted as part of the student's total course load.

When courses in the 5000 series are included, a program normally may not exceed three courses or 12 units. Students with outside responsibilities are advised to reduce their study loads proportionately.

## Challenge Examinations

Students may fulfill certain requirements through Challenge Examinations. Normally, both subject and unit credit will be granted and the credits counted toward the University's 124 semester unit graduation requirement.

Such credit is not treated as part of the student's regular term work load and therefore does not require a petition for excess study load. Challenge Examination credit will not be counted toward fulfillment of the University's residence requirement and may not be counted toward the completion of major, minor, and credential requirements except with the approval of the major and/or minor adviser and the department chair.

A student may receive Challenge Examination credit for two types of courses at the University. These examinations are prepared, approved, administered, and evaluated by the appropriate academic department.

**1. Courses Regularly Offered by Examination.** Special course sections for credit by examination may be offered in the class schedule by a department. Credit may be earned in these courses by:

- a.* enrolling in the course for Credit by Examination during a regular registration period;
- b.* taking the Challenge Examination at the time and place specified and passing it at the level deemed satisfactory by the department.

Grades of Credit (CR) or No Credit (NC) will be awarded.

**2. Catalog Courses.** A currently enrolled student who has special preparation may challenge selected courses through the department by:

- a.* securing a Request for Credit by Challenge Examination from the Office of Admissions and Records, obtaining the necessary departmental approvals, paying the appropriate examination fee, and filing all copies of the completed request with the Testing Office.
- b.* taking the Challenge Examination at the time and place specified and passing it at the level deemed satisfactory by the department. Grades of Credit (CR) or No Credit (NC) will be awarded.

## Subject Requirements

Certain specific subject requirements (e.g., U.S. Constitution, State and Local Government, etc.) may be passed by Challenge Examinations under the following conditions:

- 1.** An appropriate course is not offered by the University.
- 2.** Special arrangements must be made with the appropriate department for the preparation of the necessary examination.
- 3.** The student must secure a Request for Credit by Challenge Examination form, secure the necessary approvals, pay an examination fee, and file all copies of the completed request with the Testing Office.
- 4.** The student must take the Challenge Examination at the time and place specified, and pass it at a level deemed satisfactory by the department.



Subject credit *only* is granted for this type of Challenge Examination. An appropriate notation certifying completion of the specific requirement will be placed on the student's permanent academic record.

## Individual Study Courses

At the option of the instructor, Individual Study courses may be available in certain fields to a student who has demonstrated capacity for independent study. A total of nine units of individual study credit earned at CSU Stanislaus is the maximum permitted toward a degree, credential, or other educational objective. These courses are numbered 4980, 5980, and 6980 following the subject-field prefix.

A student seeking to enroll for an Individual Study course must file the original copy of an approved Request for Course by Individual Study form at registration. Request forms are available at the Office of Admissions and Records. The request for individual study must be approved by the student's individual study instructor, the instructor's department chair, major adviser, and the appropriate college/school dean, at the time the student registers for the course.

## Undergraduate Enrollment in Graduate Courses

Courses numbered 5000 through 6999 are graduate or professional postbaccalaureate courses. The only undergraduate students permitted to enroll in these courses are seniors within nine semester credits of graduation, who have obtained the proper approvals. Students must file a request form with the Office of Admissions and Records.

## Postbaccalaureate Credit

Students must secure the approval of their major advisers and department chairs when requesting post-baccalaureate credit during the term in which they intend to graduate. All courses not needed to fulfill degree requirements that are taken during the term in which the degree is earned will, upon the approval of the Request for Postbaccalaureate Credit form, be acceptable postbaccalaureate credit. Students graduating spring semester may also request to have the preceding Winter Term course included as postbaccalaureate credit if not used for degree requirements. Students graduating Winter Term may also request to have any fall semester courses included as postbaccalaureate credit if not used for degree requirements. Request forms are obtained from and filed with the Office of Admissions and Records.

## Declaration or Change of Educational Objectives

A student who selects or changes the degree objective at CSU Stanislaus after admission must file a Declaration or Change of Degree Objective form with the Office of Admissions and Records. To change and/or declare a degree objective officially, all appropriate signatures must be obtained on the form. Students admitted to a credential program will have their names submitted to the Office of Admissions and Records by the School of Education.

## Adding and Dropping Courses

Courses may be added or dropped by the student on official forms, properly signed and accepted at the Office of Admissions and Records during the regular add or drop period. Refer to the Schedule of Classes for TouchTone telephone registration and program change information. Unauthorized dropping of a course will result in a final grade of U, F, or NC.

The following regulations govern adding or dropping a course during the term:

1. A course may be dropped if an approved Program Change form is filed in the Office of Admissions and Records on or before the last day to drop a course as shown in the Academic Calendar.
2. A student may not drop a course after the 20th day of instruction (sixth day of instruction during Winter Term) as shown in the Academic Calendar except when approved by the academic departments. Approval requires serious or compelling reasons, e.g., accident or serious illness where the cause of withdrawal is shown to be clearly beyond the student's control. Permission to drop a course after this deadline requires the following statements.
  - a. A statement of serious or compelling reasons with supporting evidence.
  - b. Approval of the faculty, department, and school.

Students may add courses by filing an approved Program Change form in the Office of Admissions and Records not later than the last day to add a course, as shown in the Academic Calendar. An instructor cannot add a course for a student.

Students who are entitled to a partial refund because of reduced load must, in addition to the Program Change/Withdrawal form, submit a Request for Refund Form, available at the Office of Admissions and Records.

Students who stop-out for one semester, or drop all their classes prior to census date, must reapply for admission. If you attended another college or graduated you must pay a \$55.00 application fee. A student who withdraws after census date is considered a continuing student and need not reapply for the following semester. This policy applies to both graduate and undergraduate students.

## Instructor Disenrollment Privilege

Students who register for a class and do not attend the first class meeting should notify the instructor or the departmental office no later than 24 hours after the class meeting if they intend to remain in the class. Students who fail to provide such notification may be dropped administratively from the class by the instructor. The instructor also may administratively drop students who do not meet the catalog prerequisites for the class. These administrative drops shall be without penalty and must be filed by the instructor with the Office of Admissions and Records no later than the 20th day of instruction (census date).

By the last day to drop a course (census date), students should officially drop courses which they have no intention of completing rather than risk an "F" or "NC" grade. Students should not assume the instructor will take disenrollment action.

At the end of the 4th week of instruction (census date) there shall be a campus-wide enrollment update; any student who has never attended a particular course shall be dropped administratively from the course by the instructor. These administrative drops may be without penalty and must be filed by the instructor with the Office of Admissions and Records no later than the census date, the 20th instructional day in fall or spring semester (the sixth day of Winter Term). If the instructor fails to administratively drop a student who has not attended class, it is still the student's responsibility to drop the class through the Office of Admissions and Records.

## Continuous Enrollment Requirement

Students who do not complete at least one course during one semester each calendar year risk the loss of rights to their original catalog year graduation requirements, as explained in the "Catalog Year for Graduation Requirements" section of this catalog under "General Requirements for Degrees."

## Leave of Absence

Students withdrawing from CSU Stanislaus who will not be registered for at least one semester each calendar year for reasons beyond their control (e.g., compulsory military duty, medical, pregnancy, etc.) may request a "leave of absence" to protect the right to degree or credential requirements which were fixed at the time of admission to the University or admission to a degree or credential program. Financial reasons for non-enrollment are not an acceptable justification for Leave of Absence approval. This Request for Leave of Absence form is obtained from and filed with the Office of Admissions and Records. Granting a "leave of absence" to a student does not guarantee readmission to the University nor exemption from the regular application for re-admission procedure, application fees, and filing dates. Students may also protect their rights to a former catalog year for graduation requirements by enrolling at least part-time for one semester each calendar year, as explained in the "Catalog Year for Graduation Requirements" section of this catalog under "General Requirements for Degrees."

## Planned Student Leaves

A Planned Student Leave is an interruption of students' formal education in which they voluntarily cease their enrollment at CSU Stanislaus to pursue other *educationally related* activities to complete or enrich their academic programs or to clarify their educational goals. The intent of this program is to make it possible for students to suspend their academic work, leave the campus, and later resume their studies with a minimum of procedural difficulty. It is not intended for students who only wish to attend another institution. Planned Student Leave request forms are available from the Office of Admissions and Records. Enrollment at another institution of higher education during Planned Student Leave is subject to advance Concurrent Enrollment approval.

1. **Eligibility:** Any enrolled student is eligible to request a Planned Student Leave. Newly admitted students who have not yet registered are also eligible; the primary intent in such instances being to provide an opportunity for beginning students to pause between high school or community college and CSU Stanislaus enrollment.
2. **Requests for Approval:**
  - a. Each Planned Student Leave request must include a stated intent to re-enroll at CSU Stanislaus within a specified period, and a plan for how the time is to be used in relation to an educational objective. Acceptable requests will be those for planned travel, national service, study, or other specific plans which will contribute to the student's educational objectives.
  - b. The request must be filed prior to the period of absence and is subject to the approvals of the student's assigned academic adviser, department chair, and the Office of Admissions and Records.
  - c. Educational leaves may begin at any time. However, if a student chooses to begin a leave while course work is in progress the student is subject to all normal regulations and clearances (e.g., official withdrawal, financial aid termination, etc.)
3. **Duration of Leave:** A typical Planned Student Leave will be for one academic year. A student may request, in writing, an extension of leave prior to its termination. Under no circumstances shall successive leaves exceed two calendar years.
4. **Return Responsibilities and Benefits:** Students returning from an approved educational leave must submit an application for readmission but will not be required to pay another application fee or submit to residency and health

screening if terms of the leave have been satisfied. Returning students must specify on the application for re-admission form that they are returning from an approved leave. Re-admission is guaranteed providing the re-admission application is filed according to the following schedule: fall, November; winter and spring, August—or 30 days after leave approval, whichever is later. A student will be guaranteed normal registration priority and rights to prior graduation requirements provided leave terms fully are met and proper return procedures are followed.

5. **Compliance:** A student on a Planned Student Leave who does not comply with the provisions of this policy and the conditions of the leave is subject to forfeiture of the advantages of this program.

## Withdrawal From CSU Stanislaus

Students must enroll at least part-time for one semester each calendar year to maintain rights to their original catalog year for graduation requirements, as explained in the “Graduation Requirements” section of this catalog under “General Requirements for Degrees.”

Students may withdraw from CSU Stanislaus through the 20th day of instruction (through the 6th day for Winter Term) without having any administrative symbol recorded by filing an approved Program Change form in the Office of Admissions and Records. Students who withdraw from the University are deemed to be fully responsible for such action and are not eligible for enrollment at the University prior to the beginning of the next term. After non-enrollment at the University for one semester or more, an Application for Re-admission must be submitted to request enrollment. Students who take unauthorized leave may receive a final grade of U, F, or NC in each course for which they were registered.

Withdrawals after the 20th day of instruction (6th day for Winter Term) are permissible only for serious and compelling reasons, i.e., reasons clearly beyond the student’s control. Approved withdrawals at this time result in the assignment of the “W” administrative symbol which carries no connotation of quality of student performance and is not used in grade-point average calculation.

Withdrawals shall not be permitted during the final three weeks of instruction (last 5 days during Winter Term) except in cases such as accident or serious illness where the cause of withdrawal is due to circumstances clearly beyond the student’s control and the assignment of an incomplete is not practicable.

## Incomplete Work

An incomplete signifies (1) that a portion of required course work has not been completed and evaluated in the prescribed time period due to unforeseen but fully justified reasons beyond the student’s control, and (2) that there is still a possibility of earning credit. The student is responsible for obtaining the instructor’s approval for the incomplete as well as determining the exact requirements that must be satisfied to remove the incomplete. The conditions for removal of the incomplete shall be put in writing by the instructor and given to the student, with a copy placed on file with the department chair. A final grade will be assigned when the work agreed upon has been completed and evaluated.

Any incomplete must be made up within the time limit set by the instructor; in any case, *no more than one calendar year following the end of the term* in which the incomplete was assigned. This limitation prevails whether or not the student maintains enrollment. Failure to complete the assigned work will result in an incomplete reverting to a grade of NC for grading options 1 and 2, and to a grade of F for grading option 3. (See “Academic Standards” section of this catalog and Class Schedule for grading options.)

In cases of prolonged illness or any emergency which necessitates an extension of time to complete the course, the student may petition through the academic departments where the course was offered. Students may not be permitted to graduate until all incompletes are removed. *Students are not to reregister in courses in which they have an incomplete.*

## Satisfactory Progress Work

The SP (Satisfactory Progress) symbol is used in connection with courses that extend beyond one academic term. It indicates that work is in progress and has been evaluated and found to be satisfactory to date, but that assignment of a precise grade must await completion of additional work. Cumulative enrollment in SP graded course work may not exceed the total units applicable to the student's educational objective.

SP grades shall be removed within one year after issuance of the grade except for graduate degree theses for which the time may be up to two years. If the SP is not removed within these time limits, the grade will revert to NC for grading options 1 and 2, and to a grade of F for grading option 3. An extension of time may be granted only via appropriate petition to the academic department where the courses were offered for undergraduate students or the Graduate Studies Office for graduate students.

## Student Classifications

### Class level:

Freshman	0-29.9 acceptable completed semester units
Sophomore	30-59.9 acceptable completed semester units
Junior	60-89.9 acceptable completed semester units
Senior	90 or more acceptable completed semester units
Postbaccalaureate	Possesses acceptable baccalaureate or advanced degree

### Admission status:

General	Met all admission requirements
Probational	Admitted with scholastic deficiency warning (see "Scholarship Standards")
Conditional	Permitted to register pending official verification of admission status
Extension	Permitted to register for extension course work only
Summer	Permitted to register for summer session course work only
Visitor	Permitted to register for a single term only

### Registration status:

Continuing	Student who had credits attempted during the prior term
Returning	A former student returning after an absence of one or more terms
New	Student who is registering in a regular term for the first time

## Full-time and Part-time Students: Undergraduate Classification

All undergraduates are classified as full- or part-time according to the credit total listed below:

Classification	Fall/Spring Credits	Winter Credits
Full-time	10.0 or more	3.0 or more
3/4	7.0-9.5	2.0-2.5
1/2	5.0-6.5	1.5
1/4	4.0-4.5	1.0
Less than 1/4	.5-3.5	.5

- Note:**
1. *During the fall and spring semesters these classifications also apply to postbaccalaureate students enrolled for less than 4 credits of course work applicable to any graduate program.*
  2. *During Winter Term these classifications apply to postbaccalaureate students enrolled for less than 2 units of course work applicable to any graduate program.*
  3. *International students enrolled in 12 units are classified as full-time.*
  4. *Veterans should refer to the section on Veterans status for classification information.*

## Graduate Classification

Postbaccalaureate students enrolled for 4 or more credits of course work applicable to a graduate program are classified as full-time or part-time according to the unit totals shown below. Students must enroll for 2 or more units applicable to a graduate program during Winter Term to be classified in this category.

Classification	Fall/Springs Credits	Winter Credits
Full-time	7.0 or more	2.0 or more
3/4	5.5-6.5	NA
1/2	4.0-5.0	NA
1/4	NA	NA
Less than 1/4	NA	NA

**Note:** *International classified graduate students enrolled in 8 units are considered full-time and unclassified graduate students enrolled in 12 units are considered full-time students.*

## Grade Reports To Students

A report of final grades in all courses will be sent to the student's mailing address after the conclusion of each semester, term, and summer session. Credits may not in all cases reflect exact totals, e.g., grade changes, clearance of incompletes, repeated courses, etc.

## Change of Address

Students who change mailing or permanent addresses after admission or registration should immediately notify the Office of Admissions and Records. This information is needed in order to ensure that registration information, grades, correspondence, and other such materials reach the student without unnecessary delay.

## CSU Stanislaus Transcripts

Official transcripts of courses attempted at CSU Stanislaus are issued only with the written permission of the student concerned. Partial transcripts are not issued. Transcript fees are as follows: \$4 for a single copy; \$2 for each additional transcript prepared at the same time up to ten copies; \$1 for each additional transcript prepared at the same time exceeding ten copies. Transcripts from other institutions which have been presented for admission or evaluation become a part of the student's permanent academic file. Students desiring transcripts covering work attempted elsewhere should request them from the institutions concerned. Students should allow two weeks for transcript processing.

## Petitions/Appeal of University Requirements

Students may petition for waiver or substitution of certain university-wide academic requirements or request a review of decisions affecting their academic status. Petition forms and information concerning regulations may be secured from the Office of Admissions and Records, the Academic Advising Center, and/or the Graduate Studies Office. All such petitions must be reviewed and signed by the student's major adviser and/or instructor, as appropriate, before being filed. Undergraduate program students should file petitions with the Academic Advising Center, and postbaccalaureate graduate program students should file petitions with the Graduate Studies Office. Generally, appeals concerning administrative deadlines that have passed should be directed to a School/College Dean.

A petition concerning a departmental major, minor, or other requirements should be directed to the appropriate department.

An Appeals Committee on Student Petitions has been established as advisory to the Provost. Petition decisions concerning academic status and certain academic requirements may be referred to the Appeals Committee.

## Grade Appeal Procedure

Detailed grade appeal procedures are included in the "Faculty Handbook" as well as in the pamphlet "Stanislaus from A to Z," available from the Associated Students office. The complete procedures are also reproduced in Appendix H of this catalog.

## Nondiscrimination Policy

### Sex

The California State University does not discriminate on the basis of sex in the educational programs or activities it conducts. Title IX of the Education Amendments of 1972, as amended, and the administrative regulations adopted thereunder prohibit discrimination on the basis of sex in education programs and activities operated by California State University, Stanislaus. Such programs and activities include admission of students and employment. Inquiries concerning the application of Title IX to programs and activities of California State University, Stanislaus, may be referred to the Assistant to the President for Affirmative Action, 667-3011, who is assigned the administrative responsibility of reviewing such matters, or to the Regional Director of the Office for Civil Rights, Region 9, 50 UN Plaza, Room 239, San Francisco, California 94102.

### Handicap

The California State University does not discriminate on the basis of handicap in admission or access to, or treatment or employment in, its programs and activities. Section 504 of the Rehabilitation Act of 1973, as amended, and the regulations adopted thereunder prohibit such discrimination. The Assistant to the President for Affirmative Action has been designated to coordinate the efforts of California State University, Stanislaus to comply with the Act and its implementing regulations. Inquiries concerning compliance may be addressed to this person at the Affirmative Action Office, 801 W. Monte Vista Avenue, Turlock, CA 95380, 667-3011, or to the Regional Director of the Office for Civil Rights, Region 9, 221 Main Street, 10th Floor, San Francisco, California 94105.

### **Race, Color, or National Origin**

The California State University complies with the requirements of Title VI of the Civil Rights Act of 1964 and the regulations adopted thereunder. No person shall, on the grounds of race, color, or national origin be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program of The California State University.

Inquiries concerning the application of the Civil Rights Act of 1964 to programs and activities of California State University, Stanislaus, may be referred to the Assistant to the President for Affirmative Action, 667-3011, or to the Regional Director of the Office for Civil Rights, Region 9, 221 Main Street, 10th Floor, San Francisco, California 94105.

### **Age, Marital Status, Religion, or Sexual Orientation**

The California State University does not discriminate on the basis of age, marital status, religion, or sexual orientation. Inquiries concerning compliance may be addressed to the Assistant to the President for Affirmative Action, 667-3011, or to the Regional Director of the Office for Civil Rights, Region 9, 221 Main Street, 10th Floor, San Francisco, California 94105.

### **Sexual Harassment Policy and Procedures**

Please see Appendix K.

### **Use of Social Security Number**

Applicants are required to include their Social Security account number in designated places on applications for admission pursuant to the authority contained in Title 5, *California Code of Regulations*, Section 41201. The Social Security account number is used as a means of identifying records pertaining to the student as well as identifying the student for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution.

### **Privacy Rights of Students in Education Records**

Please see Appendix I.



# Academic Standards

## Honors List of Students

Each semester CSU Stanislaus publishes a list of undergraduate honor students. To qualify for the list during the semester under consideration, a student must:

1. Register for and earn a minimum of 10 units of credit of graded course work at the University, and
2. Achieve a 3.5 (B+) grade point average for all course work attempted at the University that semester.

## Grading System

### Academic Grades

**A—Excellent:** Student has demonstrated a high level of competence in meeting course objectives. Four (4) grade points per unit of credit are awarded.

**B—Good:** Student has demonstrated a more than satisfactory level of competence in meeting course objectives. Three (3) grade points per unit of credit are awarded.

**C—Satisfactory:** Student has demonstrated a satisfactory level of competence in meeting course objectives. Two (2) grade points per unit of credit are awarded.

**D—Unsatisfactory:** Student has demonstrated only a barely passing level of competence in meeting course objectives so that it is not necessary to repeat the course for credit. One (1) grade point per unit of credit is awarded.

**F—Failure:** Student has not demonstrated a minimally passing competence in meeting course objectives. Credit is not merited. Zero grade points are assigned.

**CR—Credit:** Student has demonstrated at least a satisfactory C level of competence in meeting course objectives (at least B level in graduate courses). Not used in grade-point average calculations.

**NC—No Credit:** Student has not demonstrated minimally satisfactory competence in meeting course objectives. Credit is not awarded. Not used in grade-point average calculations.

### Administrative Symbols

**U—Unauthorized Incomplete:** The symbol U indicates that an enrolled student did not withdraw from the course but failed to complete course requirements. It is used for courses graded A–F when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. In courses where the student is graded CR/NC, use of the U is inappropriate and NC is used instead. For purposes of grade-point average computation, the U symbol is equivalent to an F.

**I—Incomplete Course:** Students have not completed course requirements due to reasons beyond their control. Must be made up within the time limit set by the instructor (no more than one calendar year following the end of the term in which the grade was assigned). Failure to complete the assigned work will result in an incomplete reverting to a grade of NC for grading options 1 and 2; and to a grade of F for grading option 3. (See Grading Options below.) An extension of time may be granted via approved petition. Not used in grade-point average calculation.

**RD—Report Delayed:** No grade reported by the instructor. The Director of Admissions and Records shall make a reasonable effort to clear an RD grade by consulting with the course instructor. If the RD is not cleared by this mechanism, the appropriate dean's office shall determine why the instructor did not issue a grade. If the instructor's reason is that the student failed to attend class, the Registrar will administratively drop the student from the class.

**W—Withdrawn from Course:** Indicates that the student was permitted to drop the course after the 20th day of instruction. It carries no connotation of quality of student performance and is not used in calculating grade-point average. (See Withdrawal from CSU Stanislaus in "Policies and Procedures" section of this catalog.)

**SP—Satisfactory Progress:** Indicates a term of satisfactory progress in a course or activity which may require more than one term to complete (e.g., master's thesis). SP grades shall be removed within one year after issuance of the grade except for graduate degree theses for which the time may be up to two years. If the SP is not removed within these time limits, the grade will revert to NC for grading options 1 and 2 and to a grade of F for grading option 3. An extension of time may be granted only by approved petition. Not used in grade-point average calculation.

**AU—Audit:** The recorded grade if a student enrolls in a class but is not receiving credit. Not used in grade-point average calculation.

## Grading Options

CSU Stanislaus courses carry different grading options, indicated below, which are listed in the schedule of classes.

1. Courses graded exclusively Credit/No Credit.
2. Courses graded A, B, C, D, F—with the student's option to receive a Credit or No Credit grade.
3. Courses graded A, B, C, D, F.

## Grade Point Computation

Grade point averages are computed by multiplying grade points in courses graded A, B, C, D, F, and U (each unit of A=4, B=3, C=2, D=1, F=0, U=0) and dividing the total number of grade points by the number of graded units attempted. CR (Credit) and NC (No Credit) enrollments are not included in this calculation.

## Credit/No Credit Grading

Any student may elect to be graded on a Credit/No Credit (CR/NC) basis in any course approved with a Credit/No Credit grading option. Courses approved for CR/NC are indicated as such in the Class Schedule. In no case shall more than one-third of the required upper-division or graduate units or courses in a degree program be graded CR/NC. No more than 24 CSU Stanislaus CR/NC semester units, including Winter Term courses, but excluding credit from challenge examinations, may be applied toward a baccalaureate degree.

The student must elect the Credit/No Credit grading option by the twentieth instructional day of the Fall or Spring semester and by the sixth instructional day of the Winter term unless the instructor agrees to establish a later date. Program change forms are available from the Office of Admissions and Records. The Credit (CR) grade is earned for C work or better (B or better in graduate courses) as judged by the instructor concerned. Credit and No Credit (NC) grades will have no effect on grade-point average.

Upper-division courses graded CR/NC taken at this or another institution may not be used to satisfy requirements for the student's major except for those courses identified as graded exclusively on a CR/NC basis.

The only courses which may be repeated with a CR/NC option are those in which the student previously received a grade of "No Credit." If a course previously taken for a grade is repeated for a grade of "credit," the original grade will continue to be used in computation of the grade-point average.

*Note: Students planning to attend graduate or professional schools should be aware that CR may be counted as a C and NC as an F by graduate admissions officers.*

## Scholarship Standards\*

For the purpose of determining eligibility for a bachelor's degree, students must earn and maintain a grade point average of at least 2.0 (C). Failure to maintain standards of minimum competency will result in either Probation or Disqualification. (See Grade Point Computation.)

### Probation

**Academic Probation:** An undergraduate student is subject to academic probation if at any time the cumulative grade point average in all college-level work attempted or cumulative grade point average at CSU Stanislaus falls below 2.0. An undergraduate student shall be removed from academic probation when the cumulative grade-point average in all college-level work attempted and the cumulative grade-point average at CSU Stanislaus is 2.0 or higher.

### Disqualification

An undergraduate student on probation becomes subject to academic disqualification when the student:

1. accrues, as a freshmen or sophomore (less than 60 credits completed), a cumulative CSU Stanislaus grade deficiency of 15 grade points; *or*
2. accrues, as a junior (60–89 credits completed), a cumulative CSU Stanislaus grade point deficiency of 9 grade points; *or*
3. accrues, as a senior or postbaccalaureate student (90 or more credits completed) a cumulative CSU Stanislaus grade point deficiency of 6 grade points; *or*
4. earns U or F grades in 4 or more credits of course work in a fall or spring semester.

A student on probation will be continued on probation if not eligible for removal from probation or subject to disqualification.

A student disqualified at the end of fall semester is eligible to attend Winter Term. In such cases the effective date of disqualification shall be the last day of the Winter Term. The Academic Advising Center may disqualify a student not on probation who has fewer cumulative grade points than cumulative credits attempted at the end of fall or spring semester, and whose cumulative grade point delinquency is so great that its removal within a reasonable period seems unlikely.

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\* Students also may be subject to expulsion, suspension, and/or probation for other causes. See "Student Discipline," Appendix G of this catalog.

No student will be automatically disqualified. The Academic Advising Center will review the case of each student eligible for disqualification and seek assistance from the University Appeals Committee as needed.

### Special Administrative Action

A student may be placed on administrative-academic probation for any of the followings reasons:

1. Withdrawal in two successive terms or in any three terms from more than half of the credits for which student is registered as of the end of the fourth week of a semester.
2. Repeated failure to progress toward the stated degree or other program objective, including that resulting from 15 credits of NC, when such failure appears to be due to circumstances within the control of the student.
3. Failure to comply, after due notice, with an academic requirement or regulation which is routine for all students or a defined group of students (e.g., failure to take tests, complete specified course work, etc.).

Written notification of such action shall provide the conditions for removal from probation and the circumstances which would lead to disqualification. Furthermore, a student who has been placed on administrative-academic probation later may be disqualified if:

- a. The conditions for removal of administrative-academic probation are not met within the period specified, *or*
- b. The student becomes subject to academic probation while on administrative-academic probation, *or*
- c. The student becomes subject to administrative-academic probation for the same or a similar reason for which the student has been placed on administrative-academic probation previously, although not currently in such status.

Written notification of such action shall provide an explanation of the basis for the action.

### Reinstatement after Disqualification

Students who are disqualified may be considered for reinstatement by submission of a Reinstatement Petition to the Academic Advising Center. However, reinstatement generally is not approved for the semester immediately following disqualification.

A reinstated student who has not been enrolled at the University for one or more semesters must also apply for readmission at the Office of Admissions and Records.

Students whose reinstatement petitions are approved will be readmitted on probation only, regardless of the grade-point average earned at any other institution.

### Repeated Courses (Applies to courses after spring 1973)

Courses may be repeated by undergraduate students and only the most recent grade earned will be used for credit and grade points. This provision for repetition is not applicable when a course may be taken additional times for credit. The replacement grade policy also is not applicable to grades or administrative symbols which do not affect units allowed or grade point average (e.g., NC, I, RD, W, SP, AU).

Postbaccalaureate students doing work at the undergraduate level, such as pursuing a second major, are to be treated as undergraduates for purposes of repeating a course. Graduate students, by prior permission of the department, may repeat a course, but the original grade will be included in computing the grade point average.

*A student should file a Notification of Repeated Course form at the Admissions and Records Office after the course is repeated.*

At admission to CSU Stanislaus, the repeated-course actions and policies of former institutions will be honored.

## **Academic Renewal**

Courses with unsatisfactory grades either at CSU Stanislaus or at other institutions may be excluded from credit and grade point consideration if course repetition is inappropriate (e.g., change of major, or courses not offered at CSU Stanislaus), subject to the following provisions:

1. At least five calendar years must have elapsed since the course work was attempted.
2. The student must be an undergraduate who has completed at CSU Stanislaus 15 semester credits with a 3.0 (B) grade point average, or 30 semester credits with a 2.5 (C+), or 45 semester credits with a 2.0 (C).
3. A maximum of one academic year of course work may be disregarded; when such action is taken, all work attempted during those terms must be disregarded.
4. The student must provide evidence that past performance was due to extenuating circumstances *and that additional enrollment would be necessary to qualify for a degree if the request were not approved.*
5. The permanent academic record will be annotated, ensuring a true and complete academic history. A student must initiate such action using an appropriate petition form; upon approval of the faculty adviser, Academic Advising Center, and the Provost/Vice President for Academic Affairs, Admission and Records personnel will implement the policy.

Students admitted to CSU Stanislaus will have the academic renewal actions and policies of former institutions honored.

## International Programs

**Office:** Classroom Building 237D, (209) 667-3686

**Director:** Gerhard Mack

Developing inter-cultural communication skills and international understanding among its students is a vital mission of The California State University (CSU). Since its inception in 1963, the CSU International Programs has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. Close to 11,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or special study center abroad. The International Programs serves the needs of students in over 100 designated academic majors. Affiliated with 36 recognized universities and institutions of higher education in 16 countries, the International Programs also offers a wide selection of study locales and learning environments.

The affiliated institutions are: The University of Queensland, Brisbane (Australia); Universidade de São Paulo (Brazil); The universities of the Province of Quebec (13 institutions, including Université de Montréal, Concordia University, Université Laval, McGill University, Université du Québec, Bishop's University, i.a.) (Canada); The DIS Study Program (the international education affiliate of the University of Copenhagen) (Denmark); Institut des Etudes Françaises pour Étudiants Étrangers, Université de Droit, d'Economie et des Sciences d'Aix-Marseille (Aix-en-Provence) (France); the Ruprecht-Karls-Universität (Heidelberg) and Eberhard-Karls-Universität (Tübingen) (Germany); the Hebrew University of Jerusalem (Israel); CSU Study Center, Florence, Università degli Studi di Firenze, and La Accademia di Belle Arti di Firenze (Italy); Waseda University, Tokyo (Japan); Universidad Iberoamericana, Mexico City (Mexico); Lincoln University, Christchurch, and Massey University, Palmerston North (New Zealand); Universidad Complutense de Madrid and Universidad de Granada (Spain); Uppsala Universitet (Sweden); National Chengchi University, Taipei, (Taiwan); Bradbord University, Bristol University, Kingston Polytechnic, Sheffield University, and University of Wales, Swansea (United Kingdom); and the University of Zimbabwe, Harare, (Zimbabwe).

The International Programs pays all tuition and administrative costs for participating California resident students to the same extent that such funds would be expended to support similar costs in California. Participants are responsible for all personal costs, such as transportation, room and board, living expenses, and home campus fees. Participants remain eligible to receive any form of financial aid (except work-study) for which they can individually qualify.

To qualify for admission to the International Programs, students must have upper division or graduate standing at a CSU campus by the time of departure. California Community Colleges transfer students are eligible to apply directly from the community college if they can meet this requirement. Students must also possess a current cumulative grade point average of 2.75 or 3.0, depending on the program for which they apply. Some programs also have language study and/or other course work prerequisites.

Additional information and application materials may be obtained from the CSU Stanislaus Department of Modern Languages, C237D, 667-3686, or by writing to The California State University International Programs, 400 Golden Shore, Suite 300, Long Beach, California 90802-4275.

# Undergraduate Degrees and Programs

## General Requirements

### Undergraduate Degrees

The University grants the Bachelor of Arts, Bachelor of Science, and Bachelor of Vocational Education.

### Winter Term

As an integral part of the 4-1-4 program at CSU Stanislaus, Winter Term courses are required for graduation as follows:

1. students entering as freshmen with less than 15 semester units must complete three Winter Terms;
2. students entering as freshmen with 15 or more units, entering as sophomores, or entering as juniors with less than 75 semester units must complete two Winter Terms;
3. students entering as juniors with 75 or more semester units or entering as seniors must complete one Winter Term.

Working students who can demonstrate the necessity of a part-time load during Winter Term may petition to enroll for two units of Individual Study. One-unit courses normally will not be accepted as meeting a Winter Term requirement. Students unable to complete a Winter Term course due to illness or other circumstances beyond their control, and thus unable to fulfill the Winter Term graduation requirement, may petition for an exception.

Winter Term requirements do not apply to students in graduate programs nor to continuing and transfer students who choose to retain the graduation requirements of catalogs prior to 1973-74. All students, of course, are encouraged to enroll in Winter Term courses.

### Catalog Year for Graduation Requirements (Catalog Rights)

An undergraduate matriculated student who has been in continuous enrollment in regular sessions pursuing a degree may elect to meet baccalaureate graduation requirements in effect either at the time of first entering a California Community College or CSU campus, at the time of matriculation at CSU Stanislaus, or at the time of graduation. For purpose of this regulation, "continuous enrollment" means attendance in at least one semester or two quarters each calendar year. Attendance in summer session or Winter Term is not applicable to this regulation. An absence for an approved educational leave or for attendance not to exceed two years at a regionally accredited college may be permitted. Students who do not enroll at least part-time for one semester each calendar year risk the loss of rights to their original catalog year for graduation requirements.

Program admission and completion requirements for a credential or additional degree or major will be established by the catalog applicable at the time of subsequent program admission. (See "Evaluation and Acceptance of Credit.")

### Graduation Application

A prospective candidate for a baccalaureate degree should submit an application for graduation to the Admissions and Records Office when two semesters remain to complete requirements for the degree, or when a minimum of 90 units has been earned toward completion of the degree. In any case, a student should not apply later than the date indicated in the academic calendar.



## Faculty Approval

Approval of the major adviser, department chair, and the Director of Academic Advising is required before the University may award a degree.

## Graduation Honors

Graduation honors are awarded to students earning baccalaureate degrees at commencement on the basis of both their overall *and* CSU Stanislaus grade point averages achieved in their undergraduate work. Projected or estimated grade averages for degree candidates are excluded from grade point average calculations. To receive an honor, *both* averages must meet the standards as follows:

Cum Laude	3.40–3.59
Magna Cum Laude	3.60–3.79
Summa Cum Laude	3.80–4.00

If there is a difference between the averages, the lower of the two will be used in determining the level of honors.

## Baccalaureate Degree Requirements

To qualify for a baccalaureate degree, a student must comply with all University regulations and satisfy specific requirements in the following areas:

- Units**—A minimum of 124 semester units is required. At least 40 units must be in courses recognized for upper-division credit.
- Residence**—A student must complete a minimum of 30 semester units at CSU Stanislaus. At least 24 of these 30 units must be earned in upper-division courses, at least 12 must be in the major, and at least 9 must be applicable to General Education—Breadth requirements (Title 5, *California Code of Regulations*, Sections 40403 and 40405). Credit in summer sessions may be counted as residence credit on a unit-for-unit basis. Extension course credit or credit by evaluation will not be counted as residence credit.
- Winter Term**—A student must complete Winter Terms as indicated in the above section on Winter Term.

## Scholarship

Each student must complete with a grade-point average of 2.0 (C) or better:

- all acceptable college units attempted,
- all units attempted in a major field of study, and
- all residence credit units attempted at the University.

## Upper Division Writing Proficiency

In addition to satisfactory completion of all General Education Communication Skills requirements, all students must demonstrate competency in writing skills as a requirement for graduation. To do so, they must complete the Writing Proficiency Screening Test (WPST) and then pass, with a minimum grade of C or better, an upper division writing proficiency (WP) course, or through Spring 1994, ENGL 3007. Students who have not met the graduation writing requirement must take the WPST before gaining admission to any of these classes. A course taken prior to the first semester in which WP status takes effect for that course, may not be used to satisfy the writing competency requirement. Writing proficiency courses are designated in the schedule of classes with (WP). (See listing on the next page.)

**Writing Proficiency (WP) Courses**

<b>Course</b>	<b>Semester WP Status Takes Effect</b>
ANTH/WMST 3900	FALL 1992
ANTH 4221	FALL 1993
ART 4570	SPRING 1993
ART 4960	SPRING 1993
CS 4100	FALL 1993
DRAM 3530	FALL 1992
DRAM 4550	FALL 1992
ENGL 3009	1981-82
ENGL 3100	FALL 1992
ENGL 4600	FALL 1992
FREN 4810	SPRING 1993
GEOG 4710	FALL 1993
GERM 4810	SPRING 1993
HIST 3000	FALL 1992
HIST 4960, 4961	FALL 1992
HIST 4990	FALL 1992
HONS 3965	SPRING 1993
HONS 4965	SPRING 1993
PHED 3700	FALL 1993
PHIL 3400	FALL 1992
PHIL 3500	FALL 1993
PHIL 4200	FALL 1992
PHIL 4450	FALL 1992
PHIL 4500	FALL 1992
PSCI 3010	SPRING 1993
PSCI 3300	FALL 1993
PSCI 3700	SPRING 1993
SPAN 4810	SPRING 1993
SPCH 3140	FALL 1992

Courses will be added to the above list of writing proficiency courses. For current listings of writing proficiency courses, consult the department in which you wish to take a writing proficiency course or the WPST Coordinator. For further information, contact the WPST Coordinator, (209) 667-3247.

**Mathematics Competency**

A demonstration of mathematics skills competency is a requirement for a bachelor's degree. Satisfactory performance on the CSU Entry-Level Mathematics (ELM) examination fulfills this requirement. Further information regarding this examination, placement, possible exceptions, and completion of the General Education mathematics requirement may be obtained from the Mathematics Department. (See "Entry-Level Mathematics Requirement" under the "Admission" section of this catalog.)

## General Education-Breadth Requirements\*

As prescribed by Title 5, *California Code of Regulations*, Section 40405, the University's General Education requirements total a minimum of 51 semester units as described below, including at least 9 upper-division units. At least 9 of these 51 semester units shall be earned at the University. These course and unit requirements are distributed among the five areas of communication skills, natural sciences and mathematics, humanities, social sciences, and individual resources for modern living. This program includes required courses in United States history and government. However, credit earned in fulfillment of the upper-division writing competency graduation requirement, which optionally may be satisfied by demonstrating competency, is not applicable to this 51-unit General Education program. The University accepts certification of General Education-Breadth requirements by a California community college or a CSU campus, according to CSU regulations. Upon request, the University will report completion of these requirements to another CSU campus.

### A. Communication Skills† (9 units minimum)

#### 1. Oral Communication Requirement

- SPCH 2000 Public Speaking, 3 units *or*
- SPCH 2110 Group Discussion Processes, 3 units

#### 2. Written Communication Requirement

- ENGL 1001 Freshman Composition, 3 units  
(Requires an *EPT* score of 151 or above.)

#### 3. One course selected from the following

- ENGL 2000 Critical Inquiry, 3 units, *or*
- PHIL 2000 Philosophical Inquiry, 3 units

### B. Natural Sciences and Mathematics\*\* (9 units minimum)

*Note: Complete at least one course from each of the 3 groups listed below. This must include a laboratory course from either group 1 or 2.*

#### 1. Physical Sciences Requirement

- ASTR 2100 Descriptive Astronomy Lecture, 3 units, *and*
- ASTR 2112 Optional lab, 1 unit
- CHEM 1000 Chemistry in the Modern World, 3 units, *and*
- CHEM 1002 Optional lab, 1 unit
- CHEM 1100 Principles of Chemistry I, 5 units (includes lab)
- CHEM 1110 Principles of Chemistry II, 5 units (includes lab)
- CHEM 2400 Science of Winemaking, 4 units (no lab credit)
- CHEM 2500 Chemistry of Photography, 4 units (includes lab)
- GEOL 2001 Regional Geology of California, 3 units (includes lab)
- GEOL 2100 Principles of Geology, 3 units (includes lab)
- GEOL 2102 Principles of Geology Lab, 1 unit
- GEOL 2200 Historical Geology, 4 units (includes lab)

\* Subject and/or unit requirements may be fulfilled by the University's credit-by-examination procedure.

† Requirement may be satisfied partially by acceptable score on the CSU English Equivalency Examination.

\*\* Requirements may be satisfied partially by acceptable scores on the CLEP Natural Sciences General Examination or CSU science tests.

## 70 / Degrees and Programs

PHSC 1000	Solar Energy Today, 3 units (no lab credit)
PHSC 1300	Environmental Pollution, 3 units (no lab credit)
PHSC 2000	Introduction to Earth Science, 3 units (no lab credit)
PHSC 2100	Atmosphere, Weather, and Climate, 3 units (no lab credit)
PHYS 1500	Energy and Matter, 3 units, <i>and</i>
PHYS 1502	Optional lab, 1 unit
PHYS 2100	Basic Physics I, 5 units (includes lab)
PHYS 2110	Basic Physics II, 5 units (includes lab)
PHYS 2250	General Physics I, 4 units, <i>and</i>
PHYS 2252	Optional lab, 1 unit

### 2. *Biological Sciences*

BIOL 1010	Principles of Biology, 3 units (no lab credit)
BIOL 1020	Special Laboratory Studies, 1 unit, taken concurrently with BIOL 1010
BIOL 2310	Human Genetics, 2 units (no lab credit)
BIOL 2400	Biology and the Sea, 2 units (no lab credit)
BIOL 2650	Environmental Biology, 3 units (no lab credit)
BOTY 1050	Introduction to Botany, 4 units (includes lab)
ZOOL 1050	Introduction to Zoology, 4 units (includes lab)

### 3. *Mathematics*<sup>†</sup>

MATH 1000	Math for Liberal Arts Students, 3 units
MATH 1030	Elementary Foundations of Mathematics I, 3 units
MATH 1100	Precalculus, 4 units
MATH 1410	Calculus I, 4 units
MATH 1500	Finite Mathematics, 3 units
MATH 1600	Statistics, 4 units
MATH 1610	Statistics for Decision Making, 3 units
MATH 1910	Calculus with Applications I, 3 units

### C. *Humanities Requirement*\* (9 units minimum)

*Note: Include at least 3 units from group 1, and 3 units from group 2 below.*

#### 1. *Arts*

ART 1000	Introduction to Drawing, 3 units
ART 1100	Two-Dimensional Design, 3 units
ART 1200	Three-Dimensional Design, 3 units
ART 1340	Introduction to Ceramics, 3 units
ART 2515	Art History Survey—Ancient, 3 units
ART 2520	Art History Survey—Modern, 3 units
ART 2525	Art History Survey—Non-Western, 3 units
ART 2530	Art Appreciation, 3 units
DRAM 1010	Introduction to Theatre, 3 units
DRAM 1110	Playgoing, 3 units
DRAM 1500	Acting for Non-Drama Majors, 3 units
DRAM 2300	Theatre Workshop I, 3 units

<sup>†</sup> Requirements may be partially satisfied by acceptable scores on a CLEP Subject Examination or a CSU mathematics test. (See Appendix L for a Learning Disabled Student waiver.)

\* Requirements may be satisfied partially by acceptable scores on the CLEP Humanities General Examination.

MUS 1000	Introduction to Music, 3 units
MUS 1190	Music Fundamentals, 3 units
MUS 2000	Music of World Cultures, 3 units
MUS 2400	Orchestra, 1 unit
MUS 2410	Concert Chorale, 1 unit
MUS 2420	Choral Society, 1 unit
MUS 2430	University Chamber Singers, 1 unit
MUS 2440	Wind Ensemble, 1 unit

**2. Literature/Philosophy**

ENGL 1010	Introduction to Literature, 3 units
HUM 2000	Introduction to the Humanities, 3 units
PHIL 1010	Introduction to Philosophy, 3 units
PHIL 2200	Ancient Philosophy, 3 units
PHIL 2230	Modern Philosophy, 3 units
PHIL 2400	Contemporary Moral Issues, 3 units

**3. Foreign Language**

- a. Any language or literature course taught in a foreign language. Credit applicable to the upper-division General Education requirement is restricted to the courses listed under F2(d).
- b. ESL 1000 Beginning English and Grammar for ESL Students, 4 units  
 ESL 1005 Intermediate English and Grammar for ESL Students, 4 units  
 ESL 2000 English Grammar and Composition for Foreign Students, 3 units

**D. Social, Economic, and Political Institutions and Human Behavior  
(12 units minimum)**

**1. United States History and Constitution/California State and Local Government:**

Students may satisfy subject requirements in United States History and Constitution and California State and Local Government by passing departmental examinations in these fields. HIST 4640, Constitutional History of the United States, 3 units, will fulfill the U.S. Constitution portion of these requirements.

The *California Code of Regulations*, Title 5, Section 40404, requires "...appropriate courses in the Constitution of the United States, and in American history, including the study of American institutions and ideals, and of the principles of state and local government established under the Constitution of this State...." Completion of one course under (a) and the course under (b) below satisfies these requirements.

- a. One of the following United States history courses (which are not applicable to the upper-division General Education requirements):
 

HIST 2600	Problems in U.S. History, 3 units
HIST 3610	Colonial America, 3 units
HIST 3620	Early National America, 3 units
HIST 3630	America After the Civil War, 3 units
HIST 3640	Contemporary America, 3 units
HIST 4620	America: Rise of a Technological Society, 3 units
- b. One course covering United States Constitution and California State and local government:
 

PSCI 1201	American Government, 3 units
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**2. A minimum of one course from each group is required†**

**a. Human Institutions: Structures and Processes**

- ECON 2500 Principles of Economics I, 3 units
- ECON 2510 Principles of Economics II, 3 units
- HIST 1010 World Civilizations I, 3 units
- HIST 1020 World Civilizations II, 3 units
- PSCI 2000 Introduction to Political Science, 3 units
- PSCI 2020 Politics and Society, 3 units
- PSCI 2030 Global Politics, 3 units
- SOCL 1010 Introduction to Sociology, 3 units
- SPCH 2011 Approaches to Human Communications, 3 units
- SPCH 2200 Introduction to Mass Media, 3 units

**b. Society and Culture**

- ANTH 2060 Introduction to Cultural Anthropology, 3 units
- ANTH 2080 Introduction to Physical Anthropology, 3 units
- ANTH 2090 Introduction to Archaeology, 3 units
- CJ 2250 Introduction to Criminal Justice, 3 units
- ETHS 2000 Contemporary Black Studies, 3 units
- ETHS 2100 Contemporary Chicano Studies, 3 units
- ETHS 2200 Contemporary Asian American Studies, 3 units
- GEOG 2010 Introduction to Natural Environment, 3 units
- GEOG 2020 Introduction to Cultural Geography, 3 units
- GEOG 2400 World Regional Geography, 3 units
- GEOG 2420 Third World Regions, 3 units
- PSYC 2010 Introduction to Psychology, 3 units
- WMST 2020 Introduction to Women's Studies, 3 units

**E. Individual Resources for Modern Living (3 units minimum)**

*Note: Include one course from each group of courses:*

- 1. CIS 2000 Introduction to Business Computer Systems, 3 units
- HLTH 1000 Health in Today's Society, 3 units
- NURS 2040 Better Health with Self Care, 2 units
- PSYC 1000 Sexual Behavior, 3 units
- PSYC 2030 Psychology of Adjustment, 2 units
- SOCL 2000 Intergenerational Experiences and Life Course Developments, 2 units
- WMST 2500 Women's Development and Lifestyle Choice, 3 units
- 2. PHED 1010-1999 Physical Education Activities, 1 unit \*

**F. Upper-Division General Education Requirements (9 units minimum)**

Each student is to complete a minimum of 9 units of upper-division level General Education course work. These courses may be taken no earlier than the term in which upper-division status (completion of 60 semester units) is attained.

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†Requirements may be satisfied partially by acceptable scores on the CLEP Social Sciences General Examination.

\* Students aged 25 years or older at entry to CSU Stanislaus will not be held for this requirement.

Students will not be given upper-division General Education credit for course work in the discipline(s) of their major or concentration. The distribution of the 9 semester units must include 3 units from each of the three following areas:

**1. Natural Science and Mathematics**

**a. Biology**

- BIOL 3000 Frontiers in Biology, 3 units  
 BIOL 3020 Introduction to Evolution, 3 units

**b. Chemistry**

- CHEM 3070 The Chemicals in Your Life, 3 units  
 CHEM 3100 Environmental Chemistry, 3 units

**c. Computer Science**

- CS 4000 Personal Computing, 3 units

**d. Mathematics**

- MATH 3350 Applied Mathematical Models, 3 units  
 MATH 3400 Set Theory and Mathematical Logic, 3 units

**e. Other Natural Sciences**

- NSCI 3000 Science for Self-Sufficiency, 3 units

**f. Physics and Physical Sciences**

- ASTR 3000 Contemporary Astronomy, 3 units  
 GEOL 3000 Physical and Environmental Geology, 4 units  
 GEOL 3500 Earthquakes and Volcanoes, 3 units  
 PHSC 3500 Solar and Other Alternative Energies, 3 units  
 PHYS 3520 Modern Physics and Quantum Mechanics, 3 units  
 PHYS 3800 Fundamentals of Nuclear Energy, 3 units

**2. Humanities**

**a. Art**

- ART 4545 Modern Art 1870–1945, 3 units  
 ART 4555 American Art, 3 units

**b. Drama**

- DRAM 3020 Children's Theatre, 3 units  
 DRAM 4550 American Theatre, 3 units

**c. English**

- ENGL 3920 Masterpieces of World Literature, 3 units  
 HUM 3000 Explorations in Humanities, 3 units

**d. Foreign Languages**

- FREN 3930 French Literature in Translation, 3 units  
 GERM 3930 German Literature in Translation, 3 units  
 SPAN 3930 Spanish Literature in Translation, 3 units  
 SPAN 3970 Contemporary Latin American Prose in Translation, 3 units

**e. Music**

- MUS 3400 American Music, 3 units  
 MUS 3410 History of Jazz, 3 units

**f. Philosophy**

- PHIL 3010 Classics of Western Philosophy, 3 units  
 PHIL 4401 Professional Ethics, 3 units

**3. Social, Economic, and Political Institutions and Human Behavior****a. Anthropology**

- ANTH 3000 Anthropology and Modern Social Issues, 3 units  
 ANTH 3010 The Great Discoveries, 3 units

**b. Business Administration (Not for Business majors)**

- ACC 3005 Personal Financial Planning, 3 units  
 CIS 3780 Microcomputer and Management Information Systems, 3 units  
 FIN 3210 Investment Management, 3 units

**c. Cognitive Studies**

- COGS 4100 Philosophical Aspects of Cognitive Science, 3 units

**d. Communication Studies**

- SPCH 3100 Advanced Interpersonal Communication, 3 units  
 JOUR 3040 History of Journalism, 3 units

**e. Economics**

- ECON 3100 Economic History of the United States, 3 units  
 ECON 4500 Economics of Investment, 4 units

**f. Ethnic Studies**

- ETHS 4200 The Minority Experience, 3 units

**g. Geography**

- GEOG 3020 Human Ecology, 3 units  
 GEOG 3340 California Culture and Environment, 3 units

**h. History**

- HIST 3090 Contemporary World History, 3 units  
 HIST 3400 The Great Teachings, 3 units

**i. Multidisciplinary**

- MDIS 4400 Politics of the Environment, 3 units

**j. Politics and Public Administration**

- PSCI 3055 Marx on the Human Condition, 3 units  
 PSCI 3225 Civil Liberties, 3 units

**k. Psychology**

- PSYC 3340 Human Development III: Adulthood & Aging, 3 units  
 PSYC 4250 Drugs and Behavior, 3 units

**l. Sociology**

- SOCL 3150 The Family, 3 units  
 SOCL 4520 Personality and Society, 3 units

**m. Women's Studies**

- WMST 3550 Society and Gender, 3 units

**Major**

The major consists of a pattern of upper-division courses which are prescribed by the department, college, or school concerned, are exclusive of General Education requirements, and must be preceded by specified prerequisites in the major field of study and in support fields. Required courses in a major will total not less than 24 upper-division semester units in that discipline. More than one major may be completed. All requirements of the department of the major must be completed to qualify for a baccalaureate degree. Students seeking teaching credentials are advised to consult a credential adviser. (See "School of Education.")



As the University grows, new majors will be added. Freshmen may claim any additional majors developed and offered by the time they reach upper-division standing.

The University offers programs leading to the baccalaureate with a major in the following areas (available concentrations are indicated):

<b>Anthropology</b>	<b>Economics</b>
Ethnology	English
Physical Anthropology	TESOL
Prehistoric Archaeology	<b>French</b>
<b>Applied Studies</b>	<b>Geography</b>
<b>Art</b>	Applied Geography
Art History Emphasis	Human Geography
Ceramics	Physical Geography
Painting	<b>Geology</b>
Printmaking	Petroleum Geology/Exploration
Sculpture	Geophysics
<b>Biological Sciences</b>	<b>History</b>
Botany	<b>Liberal Studies*</b>
Cellular and Molecular Biology	<b>Mathematics</b>
Entomology	Mathematical Computing
Environmental Sciences	Operations Research/Statistics
Marine Biology	<b>Music</b>
Microbiology	<b>Nursing**</b>
Zoology	<b>Organizational Communication</b>
<b>Business Administration</b>	<b>Philosophy</b>
Accounting	<b>Physical Education</b>
Computer Information Systems	Recreation (Currently inactive)
Finance	Athletic Training
General Business	<b>Physical Sciences</b>
Human Resource Management	Applied Physics
Management	Earth and Space Sciences
Marketing	Environmental Sciences
Production and Operations	<b>Physics</b>
Management	<b>Political Science</b>
<b>Chemistry</b>	Public Administration
Environmental Sciences	<b>Psychology</b>
<b>Child Development</b>	Developmental Psychology
<b>Cognitive Studies</b>	Experimental Psychology
<b>Computer Information Systems</b>	<b>Social Sciences</b>
Systems Analysis and Design	Interdepartmental Studies
Decision Support Systems	International Studies
Management	Urban and Community Studies
<b>Computer Science</b>	<b>Sociology</b>
<b>Criminal Justice</b>	Human Services
Corrections	<b>Spanish</b>
Law Enforcement	<b>Special Major</b>
<b>Drama</b>	<b>Vocational Education</b>

\* See "Liberal Studies" section for complete list of liberal studies concentrations.

\*\* Upper-division program open to RNs only.

## Special Major

Strongly motivated University students may design special academic programs leading to a degree not offered through existing standard degree programs. Students interested in a special major program should seek a volunteer faculty advisory committee consisting of three professors from at least two disciplines. A program designed jointly with this faculty committee is then submitted for approval on a Request for Special Major Program form.

Permission of the Special Major Coordinator will be required in all cases. If necessary, the University will suspend normal University rules (but not State laws or Trustee regulations) governing such requirements as majors, minors, and general studies. The proposal may be for a special major only or for a comprehensive program covering the student's undergraduate experience at the University. The applicant must present a program consisting of at least 30 semester units to be completed following the approval of the B.A./B.S. special major.

## Minor

Completion of a minor for a baccalaureate degree may be required by the department. A minor is a pattern of prescribed course work consisting of a minimum of 8 upper-division semester units and a minimum of 15 semester units in courses acceptable to the major adviser and the department concerned. Departmental minors normally require one-half of the number of units required for a major within a department. More than one minor may be completed.

The University offers the following minors:

Anthropology	History
Art	Interpersonal Studies
Art History (Modern)	Journalism
Biological Sciences	Latin American Studies
Black Studies	Mathematics
Business Administration	Microelectronics
Chemistry	Music
Chicano Studies	Philosophy
Computer Science	Physical Education
Criminal Justice	Physical Sciences
Drama	Physics
Economics	Political Science
English	Psychology
Environmental and Resource Studies	Public Administration
Ethnic Studies	Recreation (currently inactive)
Exceptional Children and Youth	Russian-Soviet Studies
French	Sociology
Geography	Spanish
Geology	Speech Communication
German	Technology and Change
Gerontology	Women's Studies

As the University grows, new minors will be added. Freshmen may also claim any additional minors developed and offered by the time they reach upper-division standing.

## Multiple Majors and/or Minors

Second\* majors, minors, and/or concentrations normally may not be comprised essentially of courses from the same discipline or requirements of the first major, minor, or concentration. If the second major, minor, or concentration has an abundance of courses from the first major, minor, or concentration, special approval will be required in order to grant the second major, minor or concentration.

## Requirements For An Additional Baccalaureate Degree

Two baccalaureate degrees cannot be earned at the same time. A student may earn one degree and two majors with the second major posted to their academic record.

To qualify for an additional baccalaureate degree at CSU Stanislaus, students must:

1. Complete a minimum of 30 semester units in residence at CSU Stanislaus after requirements for the last degree have been met. Specific requirements include completing:
  - a. at least 24 upper-division units, and
  - b. at least 12 units in the new major.
2. Comply with all CSU Stanislaus graduation requirements, including:
  - a. the General Education requirements of the student's catalog year,
  - b. satisfaction of the graduation writing competency requirement, and
  - c. other institutional and system requirements in effect at the time of acceptance for the second degree or at the date of completion.
3. Obtain approval of the major department chair.
4. Maintain at least a 2.0 (C) grade point average for all CSU Stanislaus residence course work taken while pursuing the additional degree.
5. Complete a major in a discipline other than that in which a previous degree was earned. Rather than complete requirements for an additional degree, a postbaccalaureate student may complete only requirements for an additional major. This program must be completed under the supervision of an academic department.

## University Honors Program

For students of unusual curiosity, energy, and intelligence, the University provides an Honors Program. Its heart is an alternative General Education curriculum made up of a series of interdisciplinary seminars and sections of regular courses. The classes combine information and insight from various fields of study, and students take an active role in the shape and conduct of each one. The program also sponsors overnight backpacking expeditions, attendance at concerts, plays, and exhibits, and a week at the Shakespeare Festival in Ashland, Oregon. Students are encouraged to seek cultural and intellectual adventure.

Admission to the program is by invitation and is based on an assessment of a variety of factors such as grades, test scores, essays, and interviews. The program believes in taking risks and nurturing students who show exceptional promise. For further information and details about the Honors curriculum, please see "University Honors Program" section of this catalog.





## Graduate Studies

Office: Library Building 145E, (209) 667-3129

Dean of Graduate Studies and Research:

Diana Mayer Demetrulias

Director: Frances Jeffries

### Graduate Program Coordinators or Advisers:

Art - Printmaking (Certificate) .....	Martin L. Camarata
Business Administration (MBA) .....	Al S. Khade
Education (MA)	
Administration & Supervision .....	Tod A. Anton
Curriculum & Instruction (C&I) .....	Armin R. Schulz
C&I - Elementary .....	Armin R. Schulz
C&I - Multilingual .....	Joan E. Wink
C&I - Physical Education .....	Martha M. Moren
C&I - Reading .....	Janet H. Towell
C&I - Secondary .....	Joseph J. Galbo
School Counseling .....	Nina Ribak-Rosenthal
Special Education .....	Jane Howard and Karen Sniezek
English (MA)	
Literature .....	John E. Carroll
Teaching of Writing .....	George E. Settera
TESOL .....	Stephen B. Stryker
History (MA)	
International Relations .....	Ronald J. VanderMolen
Secondary School Teachers .....	Ronald J. VanderMolen
Interdisciplinary Studies (MA/MS) .....	Diana Mayer Demetrulias
Marine Science (MS) .....	Pamela Roe
Psychology (MA/MS) .....	Gina M. Pallotta
Behavioral Analysis (MS) .....	Gina M. Pallotta
Counseling Psychology (MS) .....	Gina M. Pallotta
Public Administration (MPA) .....	April A. Hejka-Ekins
Social Work (MSW) .....	Walter E. Doraz

The University offers Master of Arts programs in Education, English, History, and Psychology; Master of Business Administration; Master of Public Administration; Master of Science programs in Marine Science and in Psychology; Master of Social Work; and Master of Arts and Master of Science in Interdisciplinary Studies; and a certificate program in printmaking. Specific requirements within these degree programs will be found in the catalog sections of the departments concerned.

## **Interdisciplinary Studies**

The M.A. and M.S. Interdisciplinary Studies are offered to accommodate those students whose interests are multidisciplinary. Each program is a specially designed course of study involving two or more disciplines. The major is designed for exceptional, individual cases only. It provides an opportunity to pursue learning outside the framework of existing graduate programs both at CSU Stanislaus and other institutions of higher education.

Admission and program requirements and procedures for the Interdisciplinary Studies program may differ from those cited for other graduate programs. Please contact the Office of Graduate Studies for information about these requirements and procedures.

## **Graduate and Postbaccalaureate Application Procedures**

All graduate and postbaccalaureate applicants (e.g., master's degree applicants, those seeking credentials, and those interested in taking courses for personal or professional growth) must file a complete application, including Part B, as described in the admissions booklet. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the \$55 non-refundable application fee.

Applicants seeking financial aid should contact the Financial Aid Office, 667-3336, for application materials.

Since applicants for postbaccalaureate programs may be limited to the choice of a single campus on each application, redirection to alternate campuses or later changes of campus choice will be minimal. To be assured of initial consideration by more than one campus, it will be necessary for any applicant to submit separate applications (including fees) to each. Applications may be obtained from the Graduate Studies Office of any California State University campus in addition to the sources noted for undergraduate applicants. Direct contact with the graduate program department is recommended.

Application and admission to the University in no way imply admission to any master's or credential program. The student must additionally contact the appropriate department for instructions regarding specific departmental procedures.

## **Transcripts**

All applicants for admission to postbaccalaureate standing must request that official college transcripts be sent directly to the Admissions and Records Office.

Applicants who hold a baccalaureate degree from an accredited institution and who are not seeking a degree or credential from the University need only verify their baccalaureate degree to the Admissions and Records Office by filing, upon request, two official transcripts from the institution at which the degree was earned.

Graduates who seek admission to a degree, credential or certificate program must request that two copies of complete official college transcripts be sent directly to the Admissions and Records Office from each college and university (other than Stanislaus) at which they registered.

## **Continuing Baccalaureate Students**

Students who hold a baccalaureate degree from this University and plan to continue postbaccalaureate or graduate study must apply for readmission. Such students must meet program admission criteria and are subject to the same enrollment requirements and application fees as other students.

## Graduate and Postbaccalaureate Admission Requirements

Graduate and postbaccalaureate applicants may apply for a degree objective, a credential or certificate objective, or may have no program objective. Depending on the objective, the CSU will consider an application for admission as follows.

### General Requirements

The general requirements for admission to graduate and postbaccalaureate studies at a California State University campus are in accordance with university regulations as well as Title 5, Chapter 1, Subchapter 3 of the *California Code of Regulations*. Specifically, a student shall: (1) have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate campus authorities; (2) be in good academic standing at the last college or university attended; (3) have attained a grade point average of at least 2.5 (A = 4.0) in the last 60 semester (90 quarter) units attempted; and (4) satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.

If you meet the general requirements for graduate and postbaccalaureate studies, you will be considered for admission in one of the four following categories:

1. **Postbaccalaureate Unclassified**—To enroll in courses for professional or personal growth, you must be admitted as a postbaccalaureate unclassified student. By meeting the general requirements, you are eligible for admission as a postbaccalaureate unclassified student. A maximum of 9 such units may be used toward a graduate degree program. Some departments may restrict enrollment of unclassified students because of heavy enrollment pressure. Admission in this status does not constitute admission to, or assurance of consideration for admission to any graduate degree or credential program; *or*
2. **Postbaccalaureate Classified** — If you wish to enroll in a credential or certificate program, you will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; *or*
3. **Graduate Conditionally Classified**—You may be admitted to a graduate degree program in this category if, in the opinion of appropriate campus authority, you can remedy deficiencies by additional preparation; *or*
4. **Graduate Classified** —To pursue a graduate degree you will be required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, as prescribed by the campus.

### Admission of Non-Resident Postbaccalaureate Students

Non-resident applicants normally are not admitted to "Postbaccalaureate Standing: Unclassified." Admission of non-residents to this classification must be by special action of the department and approval of the Dean of Graduate Studies and Research.

## TOEFL Requirement

All graduate and postbaccalaureate applicants, regardless of citizenship, whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who do not possess a bachelor's degree from a postsecondary institution where English is the principal language of instruction must receive minimum scores of 550 total and part scores of 54 on the Test of English as a Foreign Language (TOEFL). Some programs require higher scores.

## Master's Degree Program Requirements

The program requirements for master's degrees assume substantial undergraduate preparation in the field. A student lacking this preparation will need to exceed the minimum requirements indicated below.

The program for the master's degree is a coherent pattern of (1) courses specified for an approved field of concentration, and (2) additional courses selected to meet the student's particular needs. It consists of at least 30 units completed after the bachelor's degree and within seven years just preceding the granting of the master's degree. The Master of Arts degree must include a minimum of 30 units; the Master of Science, a minimum of 36 units. Only graduate courses (5000 series) and approved upper-division courses are acceptable to meet the unit requirement. Other courses are counted in calculating the student's study load, but cannot be counted toward the unit requirement for the master's degree. The total program must include the following:

1. At least 21 units must be CSU Stanislaus residence credit, 6 units of which must have been taken at CSU Stanislaus prior to enrolling for the thesis or project.
2. Of the 30 units for the degree, not more than 9 units may consist of any combination of transfer credit. Credit by examination may be used to fulfill prerequisites, but may not apply toward the 30 units. Extension credit is not regularly used on master's degree programs; special cases recommended by the department may be evaluated by the Dean of Graduate Studies and Research. Transfer, extension, and correspondence credit may be used toward a master's degree only if the institution offering the work would use it on a comparable master's degree program, and if it is recommended by the department and judged by the Dean of Graduate Studies and Research to be particularly relevant to the individual student's program.
3. A senior-level student, within 9 units of earning a baccalaureate degree, may enroll in an upper-division or graduate level course(s) and apply it to an advanced credential or master's degree objective by filing a Request for Postbaccalaureate Credit form with the Admissions and Records Office. Approval of the departmental graduate adviser is required. This action must be taken at the time of registration; retroactive authorization will not be granted. The student must apply to the university and the program for postbaccalaureate work.
4. At least half of the units must be in courses designed primarily for master's degrees (numbered in the 5000 series). Most programs require more than 15 units of 5000 series course work.
5. Appropriate course work from a field other than the major may be required at the discretion of the major department.
6. Appropriate provision must be made for a thesis, a project, or comprehensive examination.



It is the student's responsibility to complete the specific courses included in the degree program. Once a degree program has been approved by the student's graduate committee, it may be changed only on the written request of the student and the approval of the major adviser and the Dean of Graduate Studies and Research.

### Graduate Writing Proficiency Requirement

All graduate students must demonstrate competency in writing skills as a requirement for a master's degree. A candidate for an advanced degree can satisfy the CSU writing requirement by (a) satisfactory completion of the course designated by the department as assessing writing proficiency in standard English or (b) satisfactory completion of an alternative plan adopted by the department and approved by the Graduate Council. Candidates should consult the appropriate department for specific details.

### Foreign Language Requirement

While skill in a foreign language is not a general University requirement for admission to or completion of the master's degree, certain programs require that reading mastery of one foreign language, usually equivalent to two years of collegiate study, be demonstrated before advancement to candidacy. Candidates should consult the appropriate department for specific details.

### Grade Requirements

All graduate students are subject to the regulations listed in the "Academic Standards" section. In addition, the following regulations apply specifically to graduate students:

1. No course with a grade below C may apply on a master's degree program.
2. To be eligible for advancement to candidacy, a student must have earned a B average on all upper-division and graduate course work completed after the date of beginning the first course to be included in the master's degree program.
3. To be eligible for the granting of the degree, a student must have maintained a B average. Any grade earned in a course on the program continues to be computed in the grade-point average even if that course is later dropped from the program for any reason.

### Graduate Probation and Disqualification

Students admitted to "Postbaccalaureate Standing Unclassified" will be governed by the "Undergraduate Probation/Disqualification Policy." The following policy will govern candidates admitted to "Graduate Standing: Conditionally Classified," "Postbaccalaureate Standing: Classified," and "Graduate Standing: Classified."

*Note: Each graduate and credential program will have additional probation/ disqualification regulations. Students should consult the department for specific details.*

### Probation

1. A student who is enrolled in a graduate degree program in Conditionally Classified or Classified Standing shall be placed on academic probation if the student fails to maintain a cumulative grade-point average of at least 3.0 (grade of B) in all units applicable to the degree program.
2. A student who withdraws from all or a substantial portion of a program in two successive terms or in any three terms may be placed on probation by the department.

3. The department may place a student on probation for repeated failure to progress toward the degree objective.
4. Failure to comply, after due notice, with an academic requirement may result in the department placing the student on probation.
5. A student placed on probation shall be notified in writing and shall be provided with the conditions to be met for removal from probation as well as the circumstances which will lead to disqualification.

## Disqualification

A graduate or postbaccalaureate student shall be subject to disqualification if, while on probation, the student fails to raise his/her grade-point average to 3.00 within the time specified by the department.

The disqualification decision for Classified graduate students is the responsibility of the appropriate department. The disqualification decision for persons admitted to "Postbaccalaureate standing: Unclassified" status is the responsibility of the Dean of Graduate Studies and Research, in consultation with the University Appeals Committee.

## Administrative Academic Disqualification

Consistent with guidelines issued by the Chancellor of The California State University, a graduate student may also be placed on probation or disqualified by appropriate campus authorities for repeated withdrawal, failure to progress toward an educational objective, and noncompliance with an academic department.

## Appeal of Disqualification Status

A student who believes his/her disqualification was arbitrary, capricious, or discriminatory shall have the right of appeal. The "Postbaccalaureate Standing: Unclassified" student shall appeal to the an appeals committee through the Dean of Graduate Studies and Research; students admitted to Graduate Standing shall appeal through the appropriate department chair. The appeals committee shall consist of a faculty member from the department selected by the department chair, a faculty member from the department selected by the student, and a faculty member, who will chair the appeals committee, selected from outside the department by the Dean of Graduate Studies and Research.

*Note: Advanced credential and master's candidates should check carefully with the department about probation, disqualification, and appeals of disqualification since each department has the right to develop policy and procedures in addition to the University standards noted above.*

## Catalog Rights

A person in continuous enrollment may elect the requirements in effect at the time of gaining Classified Standing or at the time of completing degree requirements. For purposes of this regulation, "continuous enrollment" is defined as attendance in at least one semester each calendar year. Attendance in Summer session or Winter term is *not* applicable to this regulation. An absence for an approved educational leave or for attendance, not to exceed two years, at a regionally accredited college may be permitted. Students who do not enroll at least part-time for one semester each calendar year risk the loss of rights to their original catalog year for graduation requirements. Please consult with the specific department graduate coordinator for individual program policy. Substitution for discontinued courses will be authorized by the major adviser and approved by the Dean of Graduate Studies and Research.

## **Workshop, Institute, and Course Work Taken Through Extension**

These units normally will not be accepted in a master's or credential program. A student who wishes to use such course work must seek prior approval from the major adviser and Dean of Graduate Studies and Research.

## **Repeating Courses**

Postbaccalaureate students doing work at the undergraduate level, such as pursuing a second major, are to be treated as undergraduates for purposes of repeating a course. Graduate students, by prior permission of the department, may repeat a course, as follows: the original grade will be included in computing the overall grade point average but will not be included in computing the grade point average for the master's degree.

## **Units Completed in Postbaccalaureate Standing: Unclassified**

The maximum number of units applicable to a degree earned as a Postbaccalaureate Unclassified student shall be 9, including transfer units. The approval of the program coordinator and the Dean of Graduate Studies and Research is required to exceed the 9-unit limit. (Refer to "Policies and Procedures" section of this catalog for additional information on "Postbaccalaureate Credit.")

## **Application to Graduate Degrees for Courses**

### **Numbered 3000–3999**

Upper-division courses numbered 3000–3999 will not be awarded graduate credit unless they are included on a departmental list approved by the Graduate Council. Courses that are not listed can be awarded graduate credit only if, prior to enrollment in the course, the student receives the major adviser's recommendation and the approval of a petition by the Dean of Graduate Studies and Research.

## **Graduate Credit For Undergraduate Courses**

Instructors expect a higher level of performance from graduate students enrolled in undergraduate courses. Additional reading, writing, and/or oral presentation are employed to meet this standard.

## **Examinations**

Besides regular course examinations, some master's degree programs at the University require qualifying examinations for classified standing and advancement to candidacy. In some instances, final oral and written comprehensive examinations at the conclusion of the program are required.

## **Qualifying Examinations**

Among the qualifying examinations used by some departments are the General Test and the Subject Test of the Graduate Record Examinations, a nationally standardized group of examinations prepared and scored by the Educational Testing Service. Graduate Record Examinations are given four times a year in various parts of the world; students taking the examination at any of the testing centers may request that their scores be sent to the University Testing Office. The University Testing Office administers the test on the University campus. For information about dates, fees, and application procedures, consult the Testing Office or the Graduate Studies Office.

## Final Examinations

In addition to the qualifying examinations, all departments reserve the right to require written or oral comprehensive examinations when circumstances demand. A few departments require final comprehensive examinations of all candidates, and most departments requiring a thesis also require an oral defense of the thesis. Graduate students are urged to consult their graduate adviser about examination requirements.

## Validation of Outdated Course Work and Units

Course content and related units earned at another university more than seven years before completion of the degree cannot be used to meet degree requirements under any circumstances.

Credits earned at CSU Stanislaus more than seven years before completion of the degree may be used to meet degree requirements only under the following conditions: (a) the student must demonstrate a current proficiency in the subject matter of the course in an examination administered by the original instructor of record or, if unavailable, a qualified substitute appointed by the departmental Graduate Committee; (b) validation is available only on the approval of the department and final inclusion of validated course work in a degree program requires departmental recommendation and Dean of Graduate Studies and Research approval. Validation of outdated course work and units may not result in more than one-third of the total units required for the degree.

## Thesis, Project, and Comprehensive Examination

The University has adopted the following definitions of the terms "thesis" and "project":

1. A thesis is the written product of the systematic study of a significant problem. It clearly identifies the problem, states the major assumptions, explains the significance of the undertaking, sets forth the sources for and methods of gathering information, analyzes the data, and offers a conclusion or recommendation. The finished product must evidence originality, critical and independent thinking, appropriate organization and format, clarity of purpose, and accurate and thorough documentation. Normally an oral defense of the thesis will be required.
2. A project is a significant undertaking of a pursuit appropriate to the fine arts and applied disciplines. It is more than the presentation of a mere outline, plan depiction, description or demonstration, though it may include these. It must evidence originality and independent thinking, appropriate form and organization, and a rationale. It may take the form of a creative work such as a literary or musical composition, a group of paintings, a performance, or a film. It also may take the form of an application such as a business plan, market survey, handbook development, curriculum plan, computing system or other endeavor. It must be described and summarized in a written document that includes the project's significance, objectives, methodology, and a conclusion or recommendation. An oral defense or presentation of the project may be required.
3. The results of a written comprehensive examination, which has been prepared by either the appropriate department or faculty member, should demonstrate the student's ability to integrate the knowledge of the area, evidence critical and independent thinking, and in general show the mastery of the subject matter. The results of the examination must evidence independent thinking, appropriate organization, critical analysis and accuracy of documentation.

No academic distinction is made among a thesis, a project, or comprehensive examination. Each is equally acceptable as a means of fulfilling the requirements for the master's degree. Specific departmental instructions or requirements should, however, be ascertained by the candidate before enrollment in courses numbered 5990.

Whether a student is preparing a thesis or a project, it should be noted that the quality of the work accomplished is a major consideration in judging acceptability. The finished product must evidence originality, appropriate organization, clarity of purpose, critical analysis, and accuracy and completeness of documentation.

Critical thinking and independent thinking should characterize every project. Mere description, cataloging, compilation, or other superficial procedures are not adequate.

The quality of the writing, format, and documentation must meet standards approved by the department granting the degree. Thesis format and writing must be consistent with the dictates of a style-book authorized by the department. The student must consult with the department and the Graduate Studies Office concerning these matters before beginning work on the thesis.

1. Registration for thesis requires a prospectus approved by the student's thesis committee. Instructions for developing and gaining prospectus approval are available from the department. A student planning to register or reregister for thesis after a break in regular semester attendance must be readmitted to the University.
2. A student whose thesis is planned to extend over more than the term of first enrollment in 5990 may receive a Satisfactory Progress (SP) grade. The SP converts to an NC after two years have expired.
3. Before a thesis is officially accepted by the Master's Committee, it must meet the above criteria on matters of format, documentation, and quality of writing.
4. Three signed copies of the bound thesis must be submitted to the Graduate Studies Office no later than the last day of the term in which the student seeks to graduate. These copies are retained by the University: two go to the Library and one to the student's department. Binding expenses are the student's responsibility. The Director of Admissions and Records will record no grade other than SP for the thesis until all requirements in this paragraph are completed.
5. A student may arrange to have the thesis published in microfilm form, with an abstract of the thesis published in the quarterly periodical, *Masters/Abstracts*. The University encourages this form of publication. Further details of the microfilming and copyright procedure may be obtained from the University Librarian.

## Application for Graduation with a Master's Degree

A request that the master's degree be granted must be filed (including verification of payment of the graduation fee) at the Admissions and Records Office in the first two weeks of a term or first week of a summer session in which the work is to be completed. Dates for filing applications are listed in the Academic Calendar. Diplomas for those completing degree requirements during summer session and at midyear will be awarded at the following June commencement exercises.

Failure to complete requirements for the degree during the term of the application necessitates the filing of a new application for the term of actual completion.

## Honors at Graduation

To be eligible to receive the master's degree with distinction, a student must be nominated by the department and must have earned at least a 3.9 grade point average in the program for the master's degree.

## **Second Master's Degree**

The student must satisfy all admission, prerequisite, and program requirements of the new degree program. Units used in the first degree program may not be applied to the second. If a student seeks admission as a candidate for a second master's degree within one semester of the student's last CSU Stanislaus registration, no application fee is required; the student simply files a "Declaration or Change of Degree Objective" form with the Office of Admissions and Records. A student seeking a second degree is urged to contact the appropriate department for additional information.

## **Duplicate Degree.**

By legislative mandate, duplicate degree tuition is charged to any student who has earned a degree equivalent to or higher than the degree awarded by the program in which the student is enrolled. This applies to students earning a second baccalaureate or a second master's degree. It may be charged in addition to the regular fees of the CSU.

Duplicate degree tuition does not apply to students enrolled in a credential or certificate program. Credential students pay only the regular University fees. Others who are exempt are dislocated workers; displaced homemakers; recipients of AFDC, SSI, or other general assistance program benefits; certain non-resident students; and, some students completing prerequisites for entry into a master's degree program.

Postbaccalaureate students may call the Office of Graduate Studies for further information.

## Course Numbering System

### Course Level Identification

- 0001-0999 Prebaccalaureate
- 1000-2999 Lower-division courses designed primarily for freshmen and sophomores
- 3000-4999 Upper-division courses designed primarily for juniors and seniors, and certain selected courses for graduate students. These courses should be taken by freshmen and sophomores only under unusual circumstances approved by both the instructor and major adviser.
- 5000-5999 Graduate courses for degrees. These courses are open only to qualified graduate students. (Seniors within 9 semester units of graduation who have obtained the proper approvals may enroll for postbaccalaureate credit.)
- 6000-6999 Professional postbaccalaureate courses
- 8000-8999 Not applicable to baccalaureate or advanced degrees. Includes non-credit courses.

### Special Course Numbers

For uniformity, certain types of courses have been listed under a single number by all departments and divisions as follows:

4910	Cooperative Education
4920	Workshops
4940, 5940, and 6940	Internship/Field Work
2950, 4950, and 5950	Selected Topics
4960	Senior Seminars
4980, 5980, and 6980	Individual Study
4990 and 5990	Thesis
5960	Graduate Project

### Explanation of Course Notations

The notations used in course descriptions listed under the various departments are as follows:

1. Courses offered for varying units are so indicated. For example (2-4 units).
2. A notation such as (Formerly 4500) at the end of a course description indicates the course was previously numbered 4500.
3. To assist you in planning your academic program, many courses in this catalog are marked to indicate when they will be offered, e.g., Fall, Winter, Spring, or Summer. It is possible courses without those designations will not be offered during 1993-95. Please check with department offices for further information about course availability.





# College of Arts, Letters, and Sciences

Office ..... Library Building 105, (209) 667-3531

Dean ..... Irel Urreiztieta

Associate Dean ..... Jay P. Christofferson

## Department Chairs:

Anthropology/Geography .....	Melvin H. Aamodt
Art .....	Martin L. Camarata
Biological Sciences .....	Wayne S. Pierce
Chemistry .....	James E. Byrd
Communication Studies .....	Fred P. Hilpert
Computer Science .....	Thomas J. Carter
Drama .....	Jere D. Wade
Economics .....	H. Dieter Renning
English .....	George E. Settera
Ethnic/Women's Studies .....	Richard L. Luevano
History .....	Britten Dean
Mathematics .....	Louis A. Feldman
Modern Languages .....	Gerhard Mack
Music .....	Edward C. Harris
Nursing .....	June L. Boffman
Philosophy/Cognitive Studies .....	James A. Tuedio
Physics/Physical Sciences/ Geology .....	Marvin Johnson
Politics/Public Administration .....	Steven W. Hughes
Psychology .....	James Wakefield, Jr.
Sociology/Criminal Justice .....	Clyde V. Collard

## Programs and Directors or Coordinators:

Applied Studies .....	Louis A. Feldman
Bilingual/Cross-Cultural .....	Leodoro Hernandez
Child Development .....	Gary Novak
Cognitive Studies .....	Linda S. Myers
Criminal Justice .....	Cecil Rhodes
Environmental and Resource Studies .....	Melvin H. Aamodt
Environmental Sciences .....	Walter Tordoff III
Ethnic Studies .....	Richard L. Luevano and Delo Washington
Exceptional Children and Youth .....	Jane S. Howard and Karen M. Sniezek
Gerontology .....	Walter E. Doraz
Honors .....	Susan Middleton-Keirn and Terrie L. Short
International Studies .....	Steven W. Hughes
Interpersonal Studies .....	Fred P. Hilpert
Journalism .....	Thomas J. Young
Latin American Studies .....	Julia Cruz
Liberal Studies .....	Peter Finley

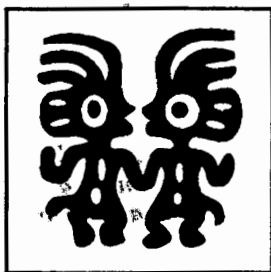
Marine Sciences .....	Pamela Roe
Multidisciplinary Studies .....	Jay P. Christofferson
Russian and East European Studies .....	H. Dieter Renning
Social Sciences .....	John T. Wold
Social Work .....	Walter E. Doraz
Special Major/Undergraduate .....	Jay Christofferson
Urban and Community Studies .....	Kenneth Entin
Women's Studies .....	Richard L. Luevano

## Mission of College of Arts, Letters and Sciences

The College of Arts, Letters and Sciences offers instruction in undergraduate and graduate fields which are vital to the mission of the University. Baccalaureate and masters degree instruction is intended to provide graduates with the knowledge and skills needed for their active and informed participation in the community, the nation, and the world and for personal growth. In addition the college has major responsibility for the General Education program, which intends to insure a breadth of education in communication skills and critical reasoning, the sciences, the arts, and humanities, and the social and behavioral sciences.

To fulfill its commitment to quality instruction the College must:

- Foster excellence in degree programs and in the General Education program, affording all students the opportunity to develop intellectual confidence and to encounter a diversity of ideas, perspectives, cultures and technologies in their studies.
- Encourage and support the teaching excellence of its faculty and their creative, scholarly and artistic efforts.
- Support the curricular efforts of students by providing academic and career advising services and extra-curricular activities.



## Anthropology

Office: Classroom Building 215, (209) 667-3127  
 Chair: Melvin H. Aamodt  
 Faculty: Kofi Akwabi-Ameyaw, Thomas E. Durbin,  
 Susan Middleton-Keirn, Lewis K. Napton

The Department of Anthropology/Geography offers the Bachelor of Arts, Anthropology. Anthropology also may be selected as a discipline for the degree Bachelor of Arts, Social Sciences (see Social Sciences for further information) and as a concentration within Liberal Studies.

The Department of Anthropology/Geography supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses offered at CSU International Programs study centers abroad are equivalent to courses in the Department of Anthropology/Geography and may be used to fulfill requirements for degree options offered by the Department and/or certain general education requirements. Students should consult the International Programs Bulletin (available at the circulation desk of the Library), a departmental adviser, and/or the campus International Programs Adviser for more information.

### Bachelor of Arts, Anthropology

The Anthropology major offers basic preparation for careers requiring contemporary cross-cultural understanding and awareness of cultural heritages. The major is also designed for students planning to teach social and biological sciences, and for students preparing for graduate work in anthropology and its various geographical areas/interdisciplinary specializations such as African Studies, Asian Studies, and Latin American Studies.

### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (9 units):
  - ANTH 2060 Introduction to Cultural Anthropology, 3 units
  - ANTH 2080 Introduction to Physical Anthropology, 3 units
  - ANTH 2090 Introduction to Archaeology, 3 units

*Note: A wide background in the Social Sciences, Humanities, and Biological Sciences is desirable. Students are encouraged to take introductory courses in related fields within these areas. Students preparing for graduate studies in anthropology should include a course in statistics and at least one foreign language.*

3. Complete the major of not less than 30 upper-division units as approved by the major adviser; of these no more than eight units of CR-graded course work from courses graded exclusively CR/NC may apply toward the major. Completion of a minor is not required.

## The Major (30 units)

Complete a minimum of 30 upper-division units distributed as follows:

1. *Ethnography* and *Ethnology* (to include a minimum of 3 units in each category), 9 units
2. *Physical Anthropology* and *Prehistoric Archaeology* (to include a minimum of 3 units in each category), 9 units
3. ANTH 4500 Growth of Anthropology (required of all majors), 3 units
4. Elective upper-division units in Anthropology, 9 units

*Note:* Three units of approved upper-division work in computer science, taken outside of the Department of Anthropology/Geography, may be applied as part of your upper-division electives in Anthropology. See your adviser for approval of this option.

## The Minor

### Requirements (21 units)

Complete 21 units of anthropology course work, including at least 12 units of upper-division courses approved by the minor adviser.

*Note:* Students may specialize in one area of anthropology for the minor. No more than 8 units of CR-graded course work from courses graded exclusively CR/NC may apply toward the minor.

## The Concentrations

### Requirements (30 units)

To concentrate in one area within the Bachelor of Arts, Anthropology, complete the above major program taking all 9 upper-division electives in one of the following: Ethnology, Physical Anthropology, or Prehistoric Archaeology. Such concentrations will be recorded on students' transcripts.

## Liberal Studies Concentration

### Requirements (20 units)

Complete the required 20-unit concentration from one of the three following anthropology sub-areas, as outlined below:

1. Ethnology (20 units)

*Note:* This concentration is recommended for teaching candidates.

- a. ANTH 2060 Introduction to Cultural Anthropology, 3 units

*Note:* If used as credit toward completion of Liberal Studies Area A (Social Sciences), then a course in Cultural Geography must be taken in addition.

- b. *Ethnography* and/or *Ethnology*, 17 units

2. Archaeology (20 units)

- a. ANTH 2090 Introduction to Archaeology, 3 units

- b. *Prehistoric Archaeology*, 17 units

3. Physical Anthropology (20 units)

- a. ANTH 2080 Introduction to Physical Anthropology, 3 units

- b. *Physical Anthropology*, 17 units

## Teaching Credentials

Anthropology majors interested in a Social Sciences waiver for a single subject credential should review the waiver requirements described in the "Social Sciences" section of this catalog. Please refer to the "School of Education, Teacher Education" section of this catalog for a description of other requirements to be completed for the single subject credential.

## Anthropology Sub-Areas

### *Lower Division*

- ANTH 2060 Introduction to Cultural Anthropology, 3 units
- ANTH 2080 Introduction to Physical Anthropology, 3 units
- ANTH 2090 Introduction to Archaeology, 3 units
- ANTH 2950 Selected Topics in Anthropology, 1–5 units

### *Upper Division*

#### *General Anthropology*

- ANTH 3000 Anthropology and Modern Social Issues, 3 units
- ANTH 3010 The Great Discoveries, 3 units
- ANTH 4500 Growth of Anthropology, 3 units

#### *Ethnography*

- ANTH 3070 Peoples and Cultures of Africa, 3 units
- ANTH 3101 Cultures of Asia and the Pacific, 3 units
- ANTH 3200 Anthropological Studies of U.S. Culture, 4 units
- ANTH 3301 The American Indian, 3 units
- ANTH 3320 Native Peoples of Latin America, 3 units
- ANTH 3400–3499 Modern Ethnographic Studies (topics vary), 1–4 units

#### *Ethnology*

- ANTH 3900 Women: A Cross-Cultural View, 3 units
- ANTH 4030 Anthropology Through Film, 1–4 units
- ANTH 4040 Crossing Cultural Boundaries: The Field Work Process, 4 units
- ANTH 4130 Urban Subcultures: Chinatown, 1 unit
- ANTH 4150 Comparative Religion, 4 units
- ANTH 4165 Family in Cross-Cultural Perspective, 3 units
- ANTH 4170 Economic Anthropology, 3 units
- ANTH 4181 Political Anthropology, 3 units
- ANTH 4200 Applied Anthropology and Social Change, 4 units
- ANTH 4210 Medical Anthropology, 3 units
- ANTH 4211 The World in Change, 3 units
- ANTH 4221 Folk Literature and Arts, 3 units

#### *Prehistoric Archaeology*

- ANTH 3500–3599 Studies in World Prehistory (topics vary), 1–4 units
- ANTH 3600 Method and Theory in Archaeology, 3 units
- ANTH 4601 Archaeological Field Methods, 4 units
- ANTH 4620 Science in Archaeology, 3 units
- ANTH 4625 Directed Lab Research, 2 units
- ANTH 4640 Archaeological Expedition, 2 units

#### *Physical Anthropology*

- ANTH 3750 Human Evolution, 3 units

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- ANTH 3760 Primates Past and Present, 3 units
- ANTH 3780 Primate Social Behavior, 3 units
- ANTH 4700-4799 Studies in Physical Anthropology, 1-4 units

### *Linguistics*

- ANTH 3800 Introduction to Linguistics, 3 units

### *Special Studies*

- ANTH 4900 Directed Field Research, 1-5 units
- ANTH 4910 Cooperative Education, 2-4 units
- ANTH 4940 Internship in Anthropology, 1-6 units
- ANTH 4950 Selected Topics in Anthropology, 1-5 units
- ANTH 4960 Senior Seminar, 1-4 units
- ANTH 4980 Individual Study, 1-4 units
- ANTH 4990 Senior Thesis, 3-5 units
- ANTH 5850 Seminar in Graduate Research, 2 units
- ANTH 5950 Selected Topics in Anthropology, 1-5 units
- ANTH 5960 Graduate Projects, 3-6 units
- ANTH 5980 Individual Study, 1-4 units
- ANTH 5990 Thesis, 3-6 units

## Course Descriptions

### *Lower Division*

**ANTH 2060 Introduction to Cultural Anthropology (3 units).** Introduction to the study of human culture and social institutions, with special emphasis on tribal and peasant societies. (CAN ANTH 4) (Fall, Spring)

**ANTH 2080 Introduction to Physical Anthropology (3 units).** Introduction to physical (biological) anthropology; includes discussion of human and nonhuman primates, their behavior, evolutionary history, anatomy, and variation. (CAN ANTH 2) (Spring)

**ANTH 2090 Introduction to Archaeology (3 units).** Introduction to prehistory and culture growth; the basic theories, methods, and goals of archaeology; cultural and historical reconstructions based on the interpretation of data recovered from worldwide archaeological contexts. (CAN ANTH 6) (Fall, Spring)

**ANTH 2950 Selected Topics in Anthropology (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected branch of anthropology. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

### *Upper Division*

**ANTH 3000 Anthropology and Modern Social Issues (3 units).** An examination of the ways in which cultural anthropology can offer contemporary Americans a broad understanding of national/world events and problems. Issues treated include the Third World, race and racism, poverty and culture, education in modern society, the environment, and social change. (Fall, Spring)

**ANTH 3010 *The Great Discoveries (3 units)*.** A survey of the great discoveries of the biological and cultural nature of humankind: past, present, and future. A study of evidence for early humans, "lost" civilizations, the decipherment of ancient languages, Stone Age people "discovered" in recent times, and the many great discoveries concerning the development of culture and social institutions in the study of bands, tribes, and civilizations of humankind. (Fall, Spring)

**ANTH 3070 *Peoples and Cultures of Africa (3 units)*.** An ethnographic survey of selected contemporary and traditional societies and cultures of sub-Saharan Africa. Emphasis is placed on the varied effects of Western European culture on the peoples studied as well as their traditional customs and cultures. Prerequisite: ANTH 2060 or Junior standing.

**ANTH 3101 *Cultures of Asia and the Pacific (3 units)*.** An ethnographic (cultural) survey of selected contemporary and traditional societies of Asia (China, India, Japan, and Southeast Asia) and the Pacific (Australia, Indonesia, Melanesia, Micronesia, the Philippines, and Polynesia). Emphasis is placed on the varied effects of Western European culture and/or the modernization process on the peoples studied as well as their traditional customs and cultures. Prerequisite: ANTH 2060 or Junior standing. (Spring)

**ANTH 3200 *Anthropological Studies of U.S. Culture (4 units)*.** In addition to their study of the world's exotic, remote, small-scale societies, anthropologists have recently begun to look at their own American culture and its institutions. This course uses films, class discussions, lectures, and contemporary authors to examine American culture, i.e., world view, values, religion, marriage, family, enculturation, political, medical, and economic systems from the perspective of anthropologists at home. Prerequisite: ANTH 2060 or Junior standing.

**ANTH 3301 *The American Indian (3 units)*.** An ethnographic (cultural) survey of selected contemporary and traditional Native American societies. Specifically included are the tribal peoples of North America (special emphasis is given California). Emphasis is placed on the varied effects of Western European cultures on the groups studied as well as their traditional customs and cultures. Prerequisite: ANTH 2060 or Junior standing. (Fall)

**ANTH 3320 *Native Peoples of Latin America (3 units)*.** An ethnographic (cultural) survey of selected contemporary and traditional native Latin American folk (peasant) societies of Mexico, the Caribbean, Central and South America. Specifically included are Nahua (Aztec), Zapotec, Maya, Quechua (Inca) and other groups. Emphasis is placed on the varied effects of Western European culture on the peoples studied as well as their traditional customs and cultures. Prerequisite: ANTH 2060 or Junior standing.

**ANTH 3400–3499 *Modern Ethnographic Studies (1–4 units)*.** Studies in the ethnography of various areas of the contemporary world. Course content may vary from term to term. Prerequisite: ANTH 2060 or Junior standing.

**ANTH 3500–3599 *Studies in World Prehistory (1–4 units)*.** Studies of various prehistoric archaeology cultures. Course content may vary from term to term. Prerequisites: ANTH 2090 and Junior standing.

**ANTH 3600 Method and Theory in Archaeology (3 units).** Study of current methods in archaeology, emphasis on applied and theoretical procedures in data sampling, collection, and evaluation; survey of method and theory in excavation of archaeological sites; integration, analysis, and interpretation of archaeological phenomena. Prerequisite: ANTH 2090 or Junior Standing. (Spring)

**ANTH 3750 Human Evolution (3 units).** Survey of what is known about human history from the beginnings of the human family and beyond. Includes some information on what is known about early nonhuman primates, then continues on to discuss the various human forms uncovered from ancient sites. Prerequisites: ANTH 2080 and consent of instructor. Recommended: ZOOL 1050. (Spring)

**ANTH 3760 Primates Past and Present (3 units).** Introduction to and description of modern primates. Topics include diet, habitats, locomotion, and behavior. Discussion of their anatomy and its variation. Discussion of what is known about the evolutionary history of primates. Prerequisites: ANTH 2080 and consent of instructor.

**ANTH 3780 Primate Social Behavior (3 units).** Survey of living nonhuman primate groups and their classification; geographical distribution, feeding habits, reproduction, and social behavior of these primates; the implications of nonhuman primate behavior for the understanding of human behavior. Prerequisite: ANTH 2080 or an introductory course in zoology or psychology.

**ANTH 3800 Introduction to Linguistics (3 units).** An introduction to the scientific study of language. Topics covered include dialect study, language acquisition, comparative linguistics, and modern theories of language. (Same as ENGL 3800)

**ANTH 3900 Women: A Cross-Cultural View (3 units).** Comparative study of traditional and changing roles of women in a wide range of contemporary cultures. (Same as WMST 3900) Satisfies upper division writing proficiency requirement. Prerequisite: ANTH 2060 or consent of instructor.

**ANTH 4000 Current Trends in Anthropology (1-2 units).** A symposium on anthropology featuring speakers on their special areas of research, including current anthropological theories. Topics differ each term. May be repeated for no more than 4 units of credit towards the major. Prerequisite: One lower division anthropology class or consent of instructor.

**ANTH 4030 Anthropology Through Film (1-4 units).** Introduction to audio-visual presentation of other cultures through ethnographic films. May be repeated for a maximum of 6 units.

**ANTH 4040 Crossing Cultural Boundaries: The Field Work Process (4 units).** The practice of cultural anthropology in a research setting provides insights into the nature of the cross-cultural experience. This course examines that experience by using the original works of leading anthropologists. Other cultural anthropologists and their accounts will emphasize the processual nature of crossing cultural boundaries. Prerequisite: ANTH 2060 or consent of instructor.



**ANTH 4130 *Urban Subcultures: Chinatown (1 unit)***. Students will travel independently to this natural urban setting for a one-day guided lecture tour and field observation. San Francisco's Chinatown, the largest Chinese settlement outside Asia, provides a unique opportunity to experience first-hand the interface of an ancient and modern culture. Historical and anthropological perspectives on the Chinese in America to be read prior to the field trip. A field journal and short paper are required to complete the course.

**ANTH 4140 *Urban Anthropology (3 units)***. Survey of processes and trends in urbanization from a cross-cultural perspective. Emphasis will be on cities of the Third World and multi-cultural urbanization in the west. Prerequisite: ANTH 2060 or consent of instructor.

**ANTH 4150 *Comparative Religion (4 units)***. Anthropological approaches to the study of religious systems, including magic, witchcraft, ritual, symbolism, and dynamic religious movements. Prerequisite: ANTH 2060 or consent of instructor.

**ANTH 4165 *The Family in Cross-Cultural Perspective (3 units)***. Study of family life from a cross-cultural perspective. Topics covered include family structure; relationships between family members; the treatment of children, youth, the aged, and women; and the family's role in various cultures. Prerequisite: ANTH 2060 or consent of instructor.

**ANTH 4170 *Economic Anthropology (3 units)***. A survey of economic anthropology that discusses and analyzes the traditional economic systems of tribal, peasant, and civilized non-industrial societies. Special emphasis is placed upon their impact on and relevance to the economic systems of modern industrialized states. Prerequisite: ANTH 2060 or consent of instructor.

**ANTH 4181 *Political Anthropology (3 units)***. A survey of political anthropology that considers both past and present uncensitized (band, tribe, village, etc.) and centralized (chiefdom and state) political systems. Emphasis is placed upon the relationships between these various levels of political organization among contemporary peoples and on changes resulting from the incorporation of small scale societies into nation-states. Prerequisite: ANTH 2060 or consent of instructor.

**ANTH 4200 *Applied Anthropology and Social Change (4 units)***. Study of changes resulting from contact between small-scale and industrialized societies. Consideration will be given to processes of social change and organized attempts to introduce change. Prerequisite: ANTH 2060 or consent of instructor.

**ANTH 4210 *Ethnomedical Anthropology (3 units)***. Designed to provide an introductory overview of this new field within the discipline of anthropology, the course will trace the origins and scope of medical anthropology. Emphasis will be placed on both western and non-western cultures in order to examine the relationship between culture, health, and disease including the analysis of health care delivery systems and the roles of medical anthropologists within them. Prerequisite: ANTH 2060 or consent of instructor.

**ANTH 4211 *The World in Change (3 units)***. A study of the modernization process throughout the world and the technological and agricultural development, industrialization and urbanization affecting the 5000 known cultural groups. Prerequisite: ANTH 2060 or consent of instructor.

**ANTH 4221 Folk Literature and Arts (3 units).** A survey of folk literature (oral traditions, mythology, legends, folk tales, etc.) and the traditional arts and material culture (art, symbols, cottage industries, etc.) of small-scale (tribal and folk or peasant) societies. Satisfies upper division writing proficiency requirement. Prerequisite: ANTH 2060 or consent of instructor.

**ANTH 4500 Growth of Anthropology (3 units).** The history of exploration, discovery and development of viewpoints in anthropology. The stories of those men and women who found the fossil humans, the "lost" tribes, civilizations and languages, and established the science of Anthropology. Prerequisite: ANTH 2060 or consent of instructor. (Fall)

**ANTH 4605 Archaeological Field Methods (5 units).** Techniques of site survey, sampling, and excavation with special emphasis on application of systematic field procedures, problem design, excavation, and recording of archaeological evidence under controlled field conditions in the Central Valley. May be repeated for a maximum of 10 units. Prerequisite: ANTH 2090 or equivalent, or consent of instructor. (Fall)

**ANTH 4620 Science in Archaeology (3 units).** Survey of applications in archaeology of techniques and theories derived from the natural and physical sciences. Study of dating and analytical techniques, laboratory investigations of faunal, floral, and inorganic materials derived from archaeological sites. Prerequisite: ANTH 3600 or consent of instructor. (Fall)

**ANTH 4625 Directed Lab Research (2 units).** Application of laboratory methods in the study and analysis of archaeological specimens. Emphasis on lithic materials, pottery, animal bone studies. Written laboratory reports to be prepared by students. Recommended to be taken in conjunction with ANTH 4601, Archaeological Field Methods. Prerequisites: ANTH 2090 and consent of instructor. (Fall)

**ANTH 4640 Archaeological Expedition (2 units).** Practical experience in archaeological procedures under actual field conditions. The course may include study of known archaeological sites, survey of archaeologically unexplored areas, or excavation of specific sites. Instruction includes research design and methods of implementation, reconnaissance, mapping, recording, testing, and excavation of archaeological data. Related studies include field photography, instrument survey, faunal identification, microanalysis, and expedition logistics. Individual initiative is encouraged. Prerequisite: ANTH 2090, 4605, or consent of instructor. (Fall)

**ANTH 4700–4799 Studies in Physical Anthropology (1–4 units).** Studies of various aspects of physical anthropology, such as human and nonhuman primate behavior, evolution and/or anatomy. Course content may vary from term to term. Courses offered on demand. Prerequisites: ANTH 2080 and consent of instructor.

**ANTH 4900 Directed Field Research (1–5 units).** Field research conducted in any subdiscipline of anthropology under the direction of a specific faculty member. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

**ANTH 4910 Cooperative Education (2–4 units).** Provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the

employer and department Co-op coordinator. May be repeated for a total of 8 units. Prerequisites: Sophomore standing and consent of departmental coordinator. (Fall, Winter, Spring)

**ANTH 4940 Internship in Anthropology (1–6 units).** This course is designed for students who are serving as interns in public or private agencies. Students serve internship as arranged between the agency and the department. Prerequisites: 9 upper-division units in anthropology and consent of instructor.

**ANTH 4950 Selected Topics in Anthropology (Topics to be specified in Class Schedule) (1–5 units).** Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

**ANTH 4960 Senior Seminar (1–4 units).** Seminar for seniors in anthropology. Review and discussion of selected topics in anthropology. Each student is expected to report on an individual project. Prerequisite: Consent of instructor.

**ANTH 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

**ANTH 4990 Senior Thesis (3–5 units).** Methodology of anthropology. Research techniques applied to investigation of original problems. Problem orientation, research design, manuscript preparation and publication are emphasized. Prerequisite: Consent of instructor.

### **Postbaccalaureate**

**ANTH 5850 Seminar in Graduate Research (2 units).** The course considers the techniques used, problems encountered, and results of the current research of graduate students. May be repeated once. Prerequisite: Postbaccalaureate standing.

**ANTH 5900 Directed Field Research (1–5 units).** Field research conducted in any subdiscipline of anthropology under the direction of a specific faculty member. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. Available only for postbaccalaureate credit.

**ANTH 5950 Selected Topics in Anthropology (1–5 units).** Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor. Available only for postbaccalaureate credit.

**ANTH 5960 Graduate Project (3–6 units).** A terminal graduate project typically completing the requirements of individual M.A. Special Major degree programs. Prerequisite: Consent of instructor. Available only for postbaccalaureate credit.

**ANTH 5980 Individual Study (1–4 units).** For students capable of independent study in one of the fields of anthropology. Topics and supervising instructors may vary. May be repeated for a total of 6 units. Available only for postbaccalaureate credit. Prerequisite: Consent of instructor.

**ANTH 5990 Thesis (3–6 units).** Thesis research. May be repeated for a total of 6 units. Available only for postbaccalaureate credit. Prerequisite: Consent of graduate adviser.



## Applied Studies

**Office:** Science Building 249, (209) 667-3461  
**Coordinator:** Louis A. Feldman  
**Faculty:** The Applied Studies faculty is drawn from various departments, including accounting, communication studies, computer information systems, economics, English, mathematics, management, marketing, political science, psychology, and sociology.

### Bachelor of Science, Applied Studies

The Bachelor of Science in Applied Studies prepares graduates for careers in professional and technical fields. The program also provides a broad understanding of the liberal arts, preparing students for advanced study in a number of programs.

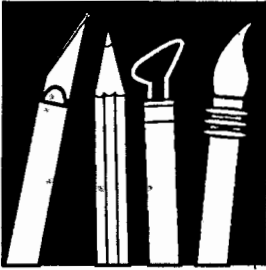
#### Requirements

1. Complete University requirements for a Bachelor of Science degree (51 units minimum).
2. Complete a minimum of 20 semester units of approved course work leading to a technical degree or certificate.
3. Complete the following prerequisites to the major (9 units):
  - ACC 2110 Financial Accounting, 3 units
  - CIS 2000 Introduction to Business Computer Systems, 3 units
  - MATH 1610 Statistics for Decision Making, 3 units
4. Complete the major.

*Note: For students in approved concentrations, complete substitutions for major courses as listed in concentration descriptions.*

#### The Major (27 units minimum)

1. Complete the following courses (18 units):
  - ECON 4540 Public Finance and Fiscal Policy, 3 units
  - ENGL 3007 Business and Technical Communication, 3 units
  - MGT 3310 Management Theory and Practice, 3 units
  - MGT 4640 Seminar in Manpower Development, 3 units
  - PSCI 3300 Introduction to Public Administration, 3 units
  - PSCI 4315 Public Policy Making, 3 units
2. Select one course from the following (3 units):
  - MGT 4360 Organizational Behavior, 3 units
  - MGT 4610 Seminar in Human Resource Management, 3 units
3. Select one course from the following (3 units):
  - PSYC 4820 Group Dynamics seminar, 3 units
  - SOCL 4020 Sociology of Small Group Dynamics, 3 units
  - SPCH 4100 Group Communication, 3 units
4. Select one course from the following (3-4 units):
  - PSCI 4300 Organization Theory, 4 units
  - SOCL 4800 Formal Organizations in Modern Society, 3 units
  - SPCH 3120 Management Communication, 3 units



## Art

**Office:** Art Building 38, (209) 667-3431

**Chair:** Martin L. Camarata

**Faculty:** John A. Barnett, Martin L. Camarata, Winston E. McGee, Ralf Parton, James Piskoti, C. Roxanne Robbin, Richard Savini, Hope B. Werness

The Department of Art offers the Bachelor of Arts degree in Art. Students may elect one of the following as part of their degree objective: Major in Studio Art; Minor in Studio Art; Emphasis in Art History; Minor in Modern Art History. Upon completion of core upper-division courses, students may elect a concentration in painting, printmaking, or sculpture. The Department offers a postbaccalaureate program in printmaking (see Certificate in Printmaking). The Department of Art is accredited by the National Association of Schools of Art and Design.

The program is designed to give students a rich, well-balanced studio and art history background. Lower-division courses and special programs are well suited for students interested in liberal arts or for the enrichment of their own creativity. The art curriculum prepares students for additional academic programs such as graduate school and teaching credential certification.

### Bachelor of Arts, Studio Art

The studio art courses and their structural sequence give the student mastery of significant skills, media exploration, modes of expression, and the individual development of artistic performance. Excellent studio facilities play a major role in stimulating a positive approach to creativity.

#### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (18 units):
  - ART 1010 Drawing I, 3 units
  - ART 1020 Drawing II, 3 units
  - ART 1100 Two-Dimensional Design, 3 units
  - ART 1200 Three-Dimensional Design, 3 units.
  - ART 2515 Art History Survey—Ancient, 3 units
  - ART 2520 Art History Survey—Modern, 3 units
3. Complete the major of not less than 36 upper-division units (including 9 units of studio electives).
4. Participate in an exhibition of works during the senior year.

#### The Major (36 units)

1. Complete upper-division course work in the four areas outlined below for a total of 21 units:

- a. **Drawing (3 units)**
    - ART 3010 Drawing III, 3 units
    - ART 3020 Drawing IV, 3 units
  - b. **Printmaking (6 units)**
    - ART 3100 Relief Printmaking, 3 units
    - ART 3110 Intaglio, 3 units
    - ART 3120 Lithography, 4 units
    - ART 3130 Serigraphy, 4 units
  - c. **Painting (6 units)**
    - ART 3200 Painting: Color and Form, 3 units
    - ART 3210 Painting: Composition and Form, 3 units
    - ART 3220 Painting: Original Form, 3 units
  - d. **Sculpture (6 units)**
    - ART 3301 Figure Sculpture, 3 units
    - ART 3311 Modeling, 3 units
    - ART 3321 Carving, 3 units
    - ART 3330 Foundry, 3-4 units
2. Complete the following required courses (6 units):
    - ART 4545 Modern Art, 1870-1945, 3 units
    - ART 4550 Art Since 1945, 3 units
  3. Select nine additional upper-division studio units in consultation with the student's adviser.

## Concentration in Studio Art

Students may choose an area of studio concentration in Painting, Printmaking, or Sculpture. Students completing a concentration will have the area of concentration noted on their permanent records.

*Note: The Art Department strongly recommends a concentration for art studio majors who plan to attend graduate school (MA/MFA).*

### Requirements (19 units)

1. Complete nineteen upper-division units in one of the areas below in consultation with a faculty adviser.
  - a. **Painting**  
 In addition to the requirements in the major, complete all 3000 level painting courses and then the following:
    - 10 additional units in upper division studio painting
    - 3 additional units in upper division studio drawing
    - 3 units in upper division studio elective in a related area
    - 3 units in upper division art history
  - b. **Printmaking**  
 In addition to the requirements in the major, complete all 3000 level printmaking courses and then the following:
    - 10 additional units in upper division studio printmaking
    - 3 additional units in upper division studio drawing
    - 3 units in upper division studio elective in a related area
    - 3 units in upper division art history

**c. Sculpture**

In addition to the requirements in the major, complete all 3000 level sculpture courses and then the following:

- 10 additional units in upper division studio sculpture
- 3 additional units in upper division studio drawing
- 3 units in upper division studio elective in a related area
- 3 units in upper division art history

**Minor in Studio Art****Requirements (27 units)**

1. Complete prerequisites to the major as listed above in subsection two of the "Requirements" section, Bachelor of Arts, Studio Art (18 units).
2. Choose one course from each of the following areas:
  - a. **Printmaking**
    - ART 3100 Relief Printmaking, 3 units
    - ART 3110 Intaglio, 3 units
    - ART 3120 Lithography, 4 units
    - ART 3130 Serigraphy, 4 units
  - b. **Painting**
    - ART 3200 Painting: Color and Form, 3 units
    - ART 3210 Painting: Composition and Form, 3 units
    - ART 3220 Painting: Original Form, 3 units
  - c. **Sculpture**
    - ART 3301 Figure Sculpture, 3 units
    - ART 3311 Modeling, 3 units
    - ART 3321 Carving, 3 units
    - ART 3331 Foundry, 4 units

**Bachelor of Arts, Art (Art History Emphasis)**

Art History courses span the entire history of the visual arts, giving students a firm grounding in the history, methodology, and cultural background of Western and Non-Western art.

**Requirements**

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (18 units):
  - a. **Art History (9 units)**
    - ART 2515 Art History Survey—Ancient, 3 units
    - ART 2520 Art History Survey—Modern, 3 units
    - ART 2525 Art History Survey—Non-Western, 3 units
  - b. **Studio Courses (9 units)**
    - ART 1010 Drawing I, 3 units
    - ART 1100 Two-Dimensional Design, 3 units
    - ART 1200 Three-Dimensional Design, 3 units
3. Complete the major of not less than 30 upper-division units.

**Note:** *Students pursuing the Art History Emphasis are encouraged to satisfy, in part, the General Education requirements in Area C, Humanities, by taking a foreign language.*

### **The Major (30 units)**

1. Select at least six courses in the following area (18 units):
  - ART 4515 Art of the Classical World, 3 units
  - ART 4520 Art of the Medieval World, 3 units
  - ART 4525 Italian Renaissance Art, 3 units
  - ART 4530 Northern Renaissance Art, 3 units
  - ART 4535 Art of the Baroque Age, 3 units
  - ART 4560 Pre-Columbian Art, 3 units
  - ART 4565 African Art, 3 units
2. Select two of the following classes (6 units):
  - ART 4540 Early Modern Art, 1800–1870, 3 units
  - ART 4545 Modern Art, 1870–1945, 3 units
  - ART 4550 Art Since 1945, 3 units
  - ART 4555 American Art, 3 units
3. Select one of the following courses (3 units):
  - ART 4580 Museum and Gallery Management, 1–3 units
  - ART 4950 Selected Topics in Art, 1–5 units
  - ART 4980 Individual Study, 1–4 units
4. Complete the required course ART 4570, Senior Seminar in Art History, 3 units

### **Minor in Art History**

#### **Requirements (18 units)**

1. Complete a minimum of six units from the following lower-division courses:
  - ART 2515 Art History Survey—Ancient, 3 units
  - ART 2520 Art History Survey—Modern, 3 units
  - ART 2525 Art History Survey—Non-Western, 3 units
2. Select 12 units of upper-division course work in consultation with the minor adviser.

### **Liberal Studies Concentration in Art**

#### **Requirements (21 units)**

1. Complete the following lower-division courses (6 units):
  - ART 1010 Drawing I, 3 units
  - ART 1020 Drawing II, 3 units
2. Select 15 units of upper-division art electives.

*Note: The Department of Art will waive upper-division prerequisites for the Liberal Studies degree student.*

### **Teaching Credentials**

An Art waiver is available to Art majors interested in a single subject credential. Students should contact the Art Department for requirements. Additionally, students should refer to the “School of Education, Teacher Education” section of this catalog for other single subject credential requirements. Students must plan their program carefully with their adviser to complete the waiver at the time of graduation.



## Graduate Programs

### *Printmaking Certificate Program*

The Department of Art also offers a one-year postbaccalaureate program leading to a Certificate in Printmaking. The workshop in the printmaking program is available to qualified graduate students. Students may select print courses for the program from department course offerings in consultation with the adviser.

### Admission Requirements

1. Bachelor of Arts degree with a major in art.
2. Minimum of two courses in printmaking at the undergraduate level.
3. Portfolio evaluation by printmaking faculty.
4. Interest in the field and seriousness of endeavor.

### Requirements for the Certificate

1. Complete a minimum of 14 units of studio electives in printmaking.
2. Submit a portfolio of prints to a faculty committee who will evaluate the work.
3. Participate in a group exhibition or a one-person exhibition of prints on campus or at a location acceptable to both the student and faculty.

### Course Descriptions

#### *Lower Division*

**ART 1000 Introduction to Drawing (3 units).** Emphasis on introduction to drawing media and process as visual language for the general student. (Fall, Spring, Summer)

**ART 1010 Drawing I (3 units).** Descriptive drawing by developing eye and hand control. Variety of media and techniques. Prerequisite: Consent of instructor. (Fall, Spring)

**ART 1020 Drawing II (3 units).** Continued exploration of drawing. Emphasis on spatial concepts and expressive content using a variety of media and techniques. Prerequisite: Art 1010 or consent of instructor. (Spring)

**ART 1100 Two-Dimensional Design (3 units).** Studio exploration of plastic elements as a basis for building a theoretical and practical vocabulary for two-dimensional design and composition in color. (Fall)

**ART 1200 Three-Dimensional Design (3 units).** Introduction to sculptural form. Emphasis on creative and imaginary solving of problems of volume, mass, weight, space, texture and other three-dimensional concerns. Assignments will be given in a variety of materials with criticism on each project. (Fall)

**ART 1340 Introduction to Ceramics (3 units).** Study and exploration of basic materials and techniques of form construction. Studio practice in hand building skills, glazing, and firing processes with emphasis on individual design, aesthetics, and self-expression. May be repeated once for credit; but only three units may be applied toward GE requirement. (Fall, Spring)

**ART 2515 Art History Survey—Ancient (3 units).** Survey of the major visual arts from prehistoric times to the renaissance. (CAN ART 2) (Fall)

**ART 2520 Art History Survey—Modern (3 units).** Survey of the major visual arts from the renaissance era to important movements of the 20th century. (CAN ART 2) (Spring)

**ART 2525 Art History Survey—Non-Western (3 units).** Survey of the art of Non-Western cultures, concentrating on the sculpture, architecture, and crafts of the Orient, the Americas before Columbus, Africa, and Oceania.

**ART 2530 Art Appreciation (3 units).** Study of the basic elements of the visual arts (color, line, form, etc.) with emphasis on developing a critical appreciation of various modes of expression. Also stressed are techniques and media, functions and themes in art, the role of the artist, and major stylistic trends in the history of art. Not open to art majors. (Fall, Spring)

**ART 2950 Selected Topics in Art (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected topic in art. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

### **Upper Division**

**ART 3010 Drawing III (3 units).** Emphasis on figure as compositional element. May be repeated for a total of 6 units. Prerequisite: ART 1020 or consent of instructor. (Fall)

**ART 3020 Drawing IV (3 units).** Development of expression techniques and media. Emphasis on independent student production. May be repeated for a total of 6 units. Prerequisite: ART 3010 or consent of instructor. (Spring)

**ART 3100 Relief Printmaking (3 units).** Fundamental theories and practices involved in the process of relief printmaking and monotypes. Emphasis on materials, techniques, tools, and craftsmanship. May be repeated for a total of 6 units. Prerequisites: ART 1020, 1200; or consent of instructor. (Fall)

**ART 3110 Intaglio (3 units).** Creative and technical investigation of intaglio printmaking. Exploration of major techniques of the etched plate; hard and soft grounds, aquatint and open-biting, engraving, multiple-plate color and photo-mechanical applications. Emphasis on the development of pertinent graphic images and the mastery of process and craft. May be repeated for a total of 6 units. Prerequisites: ART 1010, 1020, and 1100 or consent of instructor. (Spring)

**ART 3120 Lithography (4 units).** Development of graphic images based on lithographic techniques and processes. Emphasis on the unique qualities of the lithographic print, including color. May be repeated for advanced work. Prerequisites: ART 1020, 1200; or consent of instructor. (Spring)

**ART 3130 Serigraphy (4 units).** Fundamental theories and practices involved in silk-screen printing. Exploration of water-based screen printing processes using paper stencil, screen filler, crayon resist, stencil film and photo-mechanical techniques. May be repeated for a total of 8 units. Prerequisites: ART 1010, 1020, 1100; or consent of instructor. (Fall)

**ART 3200 *Painting: Color and Form (3 units)***. Studio work in 2-dimensional media, aimed at developing a clear understanding of color, primarily as it is experienced in direct observation, and as the basic element in the creation of spatial form. Studio projects may include work from a nude model and field trips to museums. May be repeated for a total of 6 units. Prerequisite: ART 1000 or 1010; or consent of instructor. (Fall, Spring)

**ART 3210 *Painting: Composition and Form (3 units)***. Studio work in 2-dimensional media, aimed at developing an understanding of compositional models and meanings, as they have evolved in the artistic styles of traditional and modern masters. Studio projects may include work from a nude model and field trips to museums. May be repeated for a total of 6 units. Prerequisite: ART 3200 or consent of instructor. (Spring)

**ART 3220 *Painting: Original Form (3 units)***. Aimed at preparing the advanced student for the future challenges of independent studio work, by using the semester as a model experience of long-term artistic development. The student will become familiar with and fully conscious of the nature of the creative process itself, which will begin with a simple basis of personal interest and individual judgment, and evolve toward unique expressive form and creative artistic style. Prerequisite: ART 3210 or consent of instructor. (Fall, Spring)

**ART 3232 *Painting the Human Form (4 units)***. Study of the human form from direct observation of the studio model and in terms of the convergence of appearances and significant pictorial form. Prerequisite: ART 3200, 3210, 3220, 3010, and 3301.

**ART 3270 *Watercolor (3 units)***. Painting problems using watercolor medium. Control of technique with an emphasis on individual development and expression. May be repeated for a total of 6 units. Prerequisite: ART 3200 or consent of instructor.

**ART 3301 *Figure Sculpture (3 units)***. Assignments are geared to the imaginative use of the figure. Figure study will precede interpretive work. The purpose is to engage students in a fresh analysis of the figure as a spatial yet personal statement. May be repeated for a total of 6 units. Prerequisite: ART 1200 or consent of instructor. (Fall)

**ART 3311 *Modeling (3 units)***. A series of assignments will be given in order to make the student experience the relationship of idea to structure. A variety of traditional and contemporary materials will be used in the additive process. Critiques on assignments will be given. May be repeated for a total of 6 units. Prerequisite: ART 1200. (Fall)

**ART 3321 *Carving (3 units)***. Development of sculpture through the subtractive process. Emphasizes concept development, tools and techniques of stone or wood carving. Prerequisite: ART 1200 or consent of instructor. (Spring)

**ART 3330 *Foundry (3-4 units)***. Techniques of both lost-wax and sandcasting will be used to translate sculpture ideas and processes into metal. Lab time required. Prerequisites: ART 1200, 2-3 sculptures suitable for casting, or consent of instructor. (Spring)

**ART 3350 *Advanced Ceramics (3 units)***. An intensive study of special topics in ceramics. Individualized course content according to student's need. May be repeated for a total of 6 units. Prerequisite: consent of instructor. (Fall, Spring)

**ART 3600 *Film-Making and Animation (4 units)*.** An introductory course to basic approaches to film-making and animation. Technical and aesthetic exploration of the motion picture medium as a vehicle for communication and artistic expression. Students may choose to work in groups or individually on their film projects. May be repeated for a total of 8 units.

**ART 3700 *Electronic Art and Design (3 units)*.** Hands-on artistic experience of the essential forms of electronic "imaging." Electronic "painting," image-capture from video, animation, color and laser printing techniques. Instruction on introductory and advanced levels. For art students with or without computer experience and for students with computer graphics experience, but little or no art experience. Prerequisite: ART 1100 or any lower division computer science course.

**ART 4020 *Advanced Drawing (4 units)*.** Advanced problems and techniques in drawing. Emphasis placed on a professional attitude within a seminar framework. May be repeated for credit. Prerequisite: ART 3020 or consent of instructor. (Spring)

**ART 4100 *Advanced Printmaking (4 units)*.** Advanced projects in printmaking with emphasis on the development of personal imagery and the mastery of technique. Individual projects via consultation with instructor. May be repeated for credit. Prerequisites: Two courses from ART 3100, 3110, 3120, 3130; or consent of instructor. (Fall, Spring)

**ART 4200 *Advanced Painting (4 units)*.** Advanced problems and techniques in painting. Emphasis on personal concepts, individual development, and a professional attitude within a seminar framework. May be repeated for credit. Prerequisite: ART 3210 or consent of instructor. (Fall, Spring)

**ART 4220 *Imagination (3 units)*.** Imagination and its function in intuition and experience. Studio problems emanating from a search for the ecstatic and the pertinent, through variety and unity and chaos and order. Prerequisite: ART 3700 or consent of instructor.

**ART 4250 *Abstract Painting and Composition (4 units)*.** Study and development of color, composition and methods of paint application in abstract forms of painting. Explore contemporary techniques with emphasis on major artists' styles and influence. Prerequisites: ART 3200, 3210, 3220, or consent of instructor. (Fall)

**ART 4300 *Advanced Sculpture (4 units)*.** Advanced assignments and critical analysis emphasizing independent production and a sound creative identity. Emphasis will be placed on a professional attitude within a seminar framework. May be repeated for credit. Prerequisites: Two upper-division sculpture courses or consent of instructor. (Fall, Spring)

**ART 4515 *Art of the Classical World (3 units)*.** Architecture, sculpture, and painting of the Classical World including Aegean Art prior to the Golden age of Greece and Græco-Roman Art from the Fifth century up to 400 A.D. Prerequisite: ART 2515, 2530, or consent of instructor.

**ART 4520 *Art of the Mediæval World (3 units)*.** The architecture, sculpture, painting, and minor arts of Mediæval Western Europe encompassing the Pre-Romanesque, Romanesque, and Gothic periods. Prerequisite: ART 2515, 2530, or consent of instructor.

**ART 4525 Italian Renaissance Art (3 units).** Painting, sculpture, and architecture of the 15th and 16th centuries in Italy. Emphasis is placed on understanding masterpieces of this period in their historical, aesthetic, and cultural contexts. Prerequisite: ART 2520, 2530, or consent of instructor.

**ART 4530 Northern Renaissance Art (3 units).** Architecture, painting, and sculpture in Northern Europe during the 15th and 16th centuries. Prerequisite: ART 2520, 2530, or consent of instructor.

**ART 4535 Art of the Baroque Age (3 units).** Painting, sculpture, and architecture in Europe in the 17th and 18th centuries. Major artists from Italy and Northern Europe include Bernini, Caravaggio, Rubens, Rembrandt, and Vermeer. Prerequisite: ART 2520, 2530, or consent of instructor.

**ART 4540 Early Modern Art, 1800–1870 (3 units).** A study of the major trends and artists from Neo-Classicism up to Impressionism. An investigation of the relationship of artists and movements to the cultural and intellectual milieu. Prerequisite: ART 2520, 2530, or consent of instructor.

**ART 4545 Modern Art, 1870–1945 (3 units).** An analysis and interpretation of the major artistic movements from 1870–1945. Emphasis will be placed on the changing aesthetic, theoretical, and artistic approaches of this period. Prerequisite: ART 2520, 2530, or consent of instructor. (Fall)

**ART 4550 Art Since 1945 (3 units).** (Formerly Contemporary Art.) Analysis of development of style trends in the visual arts from 1945 to the present. Prerequisite: ART 2520, 2530, or consent of instructor. (Spring)

**ART 4555 American Art (3 units).** A study of American art from colonial times to the present. American art is seen against its broad historical and cultural background. Prerequisite: ART 2520, 2530, or consent of instructor.

**ART 4560 Pre-Columbian Art (3 units).** Painting, sculpture, and architecture of the Americas from their beginnings to the Spanish Conquest. Prerequisite: ART 2525, 2530, or consent of instructor.

**ART 4565 African Art (3 units).** Traditional sub-Saharan African Art. Emphasis is placed on seeing African Art as part of the broad cultural context involving such issues as philosophical, mythological and aesthetic concepts, religious beliefs and the functioning ritual context of all forms of African Art. Prerequisite: ART 2525, 2530, or consent of instructor.

**ART 4570 Senior Seminar in Art History (3 units).** Basic knowledge and skills requisite to advanced study of Art History—research methodology, writing and publication, survey of graduate education in the United States and discussion of broad aesthetic and art historical issues. Satisfies upper division writing proficiency requirement. Prerequisite: Senior standing or consent of instructor.

**ART 4575 Slide Library Management (1-3 units).** This course will provide students with basic knowledge of the theories and methods of managing a slide library. These include: general knowledge of library methods and practices, cataloging and coding, filing and retrieval procedures, as well as photo-duplication processes. Prerequisites: Lower division Art Appreciation or Art History Survey. May be repeated for a total of six units.

**ART 4580 Museum and Gallery Management (1–3 units).** Study of the history, nature, and underlying philosophy of museums and art galleries. Practical experience in organizing exhibitions in the University art gallery. Prerequisite: Art major or minor; or consent of instructor. (Fall, Spring)

**ART 4910 Cooperative Education (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 6 units. Prerequisites: Sophomore standing; consent of departmental coordinator.

**ART 4940 Gallery/Museum Internship (4 units).** An internship course to acquaint the student with a blend of research skills and practical information fundamental in operating a museum or an art gallery. Experience in commercial galleries/museums can be arranged for advanced students. Prerequisite: Art major with upper-division standing or consent of instructor.

**ART 4950 Selected Topics in Art (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected topic in art. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**ART 4960 Senior Seminar (3 units).** Study of issues confronting the contemporary American artist through an examination of current art criticism and theory. Preparation for professional artistic careers: resume, artist's statement, portfolio and slide preparation. Required for participation in Senior Exhibition. Satisfies upper division writing proficiency requirement. Prerequisite: Senior standing or consent of instructor. (Spring)

**ART 4980 Individual Study (1–4 units).** For the student capable of independent specialized work in studio and/or history and criticism. Students would normally be senior art majors with one year of study in the department. A written outline of the proposed independent study must be submitted and approved by the instructor under whom the student wishes to work. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Spring)

### **Postbaccalaureate**

**ART 5020 Graduate Problems in Drawing (4 units).** Graduate-level projects in drawing involving investigation of line, tonality, form, space. Development of visual concepts, mastery of advanced techniques, experimentation with various graphic media. Prerequisite: Graduate standing. (Fall, Spring)

**ART 5100 Graduate Problems in Printmaking (4 units).** Exploration of advanced printmaking techniques in Intaglio, Scrigraphy, and Lithography. Emphasis on development of visual concepts and personal imagery. Prerequisite: Graduate standing. (Fall, Spring)

**ART 5200 Graduate Problems in Painting (4 units).** Advanced projects in painting: may include mixed media, as well as oil, acrylic, and watercolor. Emphasis is placed on aesthetic development and sophisticated utilization of the elements of color and design. Prerequisite: Graduate standing. (Fall, Spring)

**ART 5300 Graduate Problems in Sculpture (4 units).** Graduate-level problems in various sculptural media, e.g., foundry, carving, modeling and figure sculpture. Development of conceptual and technical grasp of the elements of form, mass, texture, and surface finish. Prerequisite: Graduate standing. (Fall, Spring)

**ART 5410 Graduate Seminar in Visual Studies I (3 units).** Graduate-level introduction to the methodological bases of Western art history, with special attention to reading and research of fundamental scholarly work; term paper. Prerequisite: Graduate standing.

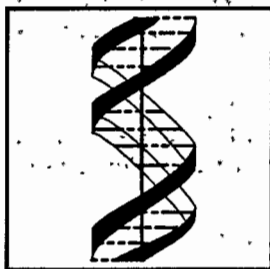
**ART 5420 Graduate Seminar in Visual Studies II (3 units).** Selected problems in contemporary art. Emphasis on major trends in art and the role of criticism. Prerequisite: Graduate standing.

**ART 5950 Selected Topics in Art (1-5 units).** Innovative advanced projects for the graduate student. Prerequisite: Consent of instructor.

**ART 5960 Graduate Projects (3-6 units).** Presentation or documentation of original creative work and research such as gallery exhibit, mural, media display or image development. Projects will include review, critique, and public showing of work done. Prerequisite: Consent of instructor.

**ART 5980 Individual Study (1-4 units).** For postbaccalaureate students with a degree major in art capable of independent specialized work in studio and/or history and criticism. A written outline of the proposed independent study must be submitted and approved by the instructor under whom the student wishes to work. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

**ART 5990 Thesis Project (3-6 units).** The course, required for a minimum of two semesters, is designed to provide a framework for independent studio research demonstrating creative ability and technical proficiency in the area of concentration, culminating in an exhibition of selected works. Prerequisite: Consent of instructor.



## Biological Sciences

**Office:** Science Building 103, (209) 667-3476  
**Chair:** Wayne S. Pierce  
**Faculty:** Judith Brown, Jay Christofferson, Steve J. Grillos (Emeritus), Glenn A. Hackwell, James C. Hanson, Pete S. Mayol, Wayne S. Pierce, Pamela Roe, Walter Tordoff III, Daniel F. Williams, Janey Youngblom

The Department of Biological Sciences offers programs of study in the life sciences for students seeking the Bachelor of Arts or the Bachelor of Science in Biological Sciences, or a Master of Science in Marine Science. Students may also elect to complete a concentration in Botany, Cellular and Molecular Biology, Entomology, Environmental Sciences, Marine Biology, Microbiology, or Zoology as part of either the Bachelor of Arts or the Bachelor of Science program. Students should confer with their department adviser to determine which degree and program is best suited to their career objectives. (Advising by a biology faculty member is required of all biology majors prior to registration each semester. The department secretary coordinates scheduling of advising appointments.)

Students interested in marine biology and oceanography may elect course work at the Moss Landing Marine Laboratories for partial fulfillment of their in-residence major and degree requirements. Refer to the "Marine Sciences" section of this catalog for a description of Moss Landing course offerings.

Field trips are required in many courses; a few require overnight stays. Hazards can be encountered on field trips. Appropriate precautions need to be taken by students while in the field to minimize risks. If a student is unwilling to accept these risks, alternative courses which do not pose such risks should be selected in consultation with the adviser.

### Bachelor of Arts, Biological Sciences

The Bachelor of Arts is designed to provide breadth and background in the natural sciences and to allow sufficient flexibility to accommodate the diverse needs of the general student. Persons preparing for careers in such areas as agriculture, industry, and elementary or secondary teaching will find this degree adaptable to their career objective.

### Bachelor of Science, Biological Science

The Bachelor of Science is designed to provide the comprehensive background in the sciences required for students planning to seek additional training in graduate or professional schools. The degree includes course work usually required for admission to schools of medicine, dentistry, veterinary medicine, or lab technology, and for admission to graduate work in the biological sciences. Students planning to seek advanced or professional degrees should consult their department adviser early in their undergraduate program to determine what specific courses may be required.



## Requirements for the Bachelor of Arts or the Bachelor of Science

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major:
  - a. Required courses in the major field (8 units):
    - BOTY 1050 Introduction to Botany, 4 units
    - ZOOL 1050 Introduction to Zoology, 4 units
  - b. Required courses in supporting fields (20–21 units for the Bachelor of Arts Degree; 28–31 units for the Bachelor of Science Degree):
    - i. CHEM 1100, 1110 Principles of Chemistry I, II, 10 units
    - ii. CHEM 3010, 3012 Organic Chemistry, Lab, 4–5 units
    - iii. *Bachelor of Arts Students* (6 units):
      - Elective courses in Chemistry, Computer Science, Geology, Mathematics, Physics or Physical Sciences, 6 units
    - iv. *Bachelor of Science Students* (14–16 units):
      - Mathematics (statistics or calculus), 3–4 units
      - Physics (one-year sequence), 8 units. (A year sequence comparable to PHYS 2100, 2102; 2110; 2112, or PHYS 2250; 2252, 2260, 2262.)
      - Elective course in Chemistry, Computer Science, Geology, Mathematics, Physics, or Physical Sciences (determined by professional goals of student), 3–4 units
3. Complete the major of not less than 25 upper-division units for the Bachelor of Arts or not less than 29 upper-division units for the Bachelor of Science, including course requirements as specified for the major. No more than eight units of CR-graded course work from courses graded exclusively CR/NC may apply toward the major.
4. Completion of a minor or concentration is not required.

## The Major (33–38 units)

1. Complete BIOL 3310, Cellular and Molecular Biology, 3 units
2. Complete a broad basic program taking units from each category as listed below (30 or 34 units):
  - a. Genetics (4–5 units)
    - i. BIOL 3350 Introductory Genetics, 3 units
    - ii. Select one course from the following:
      - BIOL 4820, 4830, 4840, 2 units, or 4842, 1 unit
  - b. Animal and Plant Sciences (8 units)
    - i. Select one course from *Entomology* or *Zoology*.
    - ii. Select one course from *Botany* or *Microbiology*.
    - iii. One of the above courses must deal with the diversity of organisms. (Acceptable courses are indicated by an asterisk in the course description section of the catalog.)
  - c. Ecology (4 units)
    - Select one course from the following:
      - BIOL 4680 Ecology, 4 units
      - BIOL 4650 Aquatic Biology, 4 units
      - BIOL 4630 Marine Biology, 4 units
      - BOTY 4600 Plant Ecology, 4 units

**d. Physiology (4 units)**

Select one course from the following:

BIOL 4220 General and Cellular Physiology, 4 units

BOTY 4200 Plant Physiology, 4 units

ZOOL 4230 Animal Physiology, 4 units

3. Complete 10 units of electives in the Biological Sciences for the Bachelor of Arts Degree or 14 units of electives in the Biological Sciences for the Bachelor of Science Degree. A maximum of 8 units may be satisfied by courses at the lower-division level with the approval of the major adviser.
4. Completion of a concentration is optional.

**Elective Concentrations in the Major****Requirements (16 units minimum)**

Students wishing to have a specific concentration may do so by completing all the requirements for a major in biological sciences to include specific concentration requirements listed below. A minimum of 16 upper-division units must be completed within the area of concentration. Additional units within the concentration will be selected with the aid of the adviser. Units taken to complete a concentration also count where appropriate, within the major. The following concentrations are offered:

**1. Botany**

BOTY 3100 Survey of Nonvascular Plants, 4 units

BOTY 3120 Morphology of Vascular Plants, 4 units

BOTY 4200 Plant Physiology, 4 units, *or*

BIOL 4220 General & Cellular Physiology, 4 units

**2. Cellular and Molecular Biology**

BIOL 3340 Techniques of Electron Microscopy, 4 units

BIOL 4840 Molecular Genetics, 2 units

BIOL 4965 Seminar in Advanced Cellular and Molecular Biology, 3 units

MBIO 3010, 3032 Bacteriology Lecture and Lab, 5 units

CHEM 4400 Biochemistry I, 3 units

One course in developmental biology, 3–5 units

*Note: Students seeking a B.A. degree with this concentration are urged to complete at least one course in principles of physics.*

*Note: Students are strongly urged to complete a course in computers before their junior year.*

**3. Entomology**

ENTO 3000 Principles of Entomology, 4 units

ENTO 3330 Medical Entomology, 3 units

ENTO 3740 Insect Classification, 4 units

**4. Environmental Sciences**

A biological sciences major may complete additional requirements in the sciences and mathematics to qualify for an Environmental Sciences Concentration in addition to the Bachelor of Arts or Bachelor of Science degree in Biological Sciences. This program requires study in biological sciences, chemistry, computer science, mathematics, and physical sciences, along with an environmental seminar and investigation of an environmentally related problem. Further details are found in the "Environmental Sciences" section of this catalog.

**5. Marine Biology**

- ZOOL 4420 Invertebrate Zoology I, 4 units (or MSCI 3240)  
 ZOOL 4430 Invertebrate Zoology II, 4 units (or MSCI 3250)  
 BIOL 4630 Marine Biology, 4 units (or MSCI 3030)  
 BOTY 3100 Survey of Nonvascular Plants, 4 units (or MSCI 3310)  
 One term of residence at Moss Landing Marine Laboratories or another marine station.

**6. Microbiology**

- a. Complete the following required courses (5 units):  
 MBIO 3010 Bacteriology, 3 units  
 MBIO 3032 Bacteriology lab, 2 units
- b. Select elective courses listed below to complete the concentration:  
 MBIO 4600 Food Microbiology, 3 units  
 MBIO 4950 Selected Topics, 1-4 units  
 BOTY 3500 Introductory Plant Pathology, 4 units  
 ENTO 3330 Medical Entomology, 3 units  
 ZOOL 4440 General Parasitology, 4 units

**7. Zoology**

Select at least one course from each of the following groups:

- a. ZOOL 3610 General Vertebrate Zoology, 4 units  
 ZOOL 4620 Herpetology, 4 units  
 ZOOL 4630 Ornithology, 4 units  
 ZOOL 4640 Mammalogy, 4 units
- b. ZOOL 4420 Invertebrate Zoology I, 4 units  
 ZOOL 4430 Invertebrate Zoology II, 4 units  
 ENTO 3000 Principles of Entomology, 4 units  
 ENTO 3740 Insect Classification, 4 units
- c. ZOOL 4230 Animal Physiology, 4 units  
 BIOL 4220 General & Cellular Physiology, 4 units

**Preparation for Graduate Work or Professional Degrees**

Biological sciences majors interested in dentistry, medicine, optometry, and veterinary medicine should complete the following courses:

- CHEM 3010, 3012 Organic Chemistry I and Lab  
 CHEM 3020, 3022 Organic Chemistry II and Lab  
 PHYS 2100 Basic Physics I  
 PHYS 2110 Basic Physics II  
 ZOOL 3130 Vertebrate Embryology  
 ZOOL 3150 Comparative Anatomy of Vertebrates (or equivalent)

Additional course work for specific professions will vary with the profession (i.e., for premedical students, BIOL 4220, CHEM 4010, CHEM 4020, CHEM 4400, CHEM 4420, and mathematics through calculus are recommended). Additional information may be found in the "Premedical and Health Professions" section of this catalog.

Students who intend to seek an advanced degree are encouraged to select a minor in the physical sciences or mathematics and to complete at least a college-level one-year sequence or equivalent in French, German, or computer programming (BASIC or FORTRAN). A year sequence in college physics and a year sequence in organic chemistry also should be completed. Students interested in an advanced degree in biochemistry, ecology, or molecular biology should elect a year sequence in calculus and a course in statistics.

Students interested in biological laboratory occupations following the baccalaureate degree in biological sciences should complete the following courses as part of their major:

BIOL 4310	Histological and Cytological Techniques, 4 units
CHEM 2010	Quantitative Analysis and Basic Instrumental Techniques, 4 units
MATH 1600	Statistics, 4 units
MBIO 3010	Bacteriology, 3 units
MBIO 3032	Bacteriology Laboratory, 2 units

## Minor in Biological Sciences

### Requirements (20 units)

1. Complete the following lower-division courses (8 units):
  - BOTY 1050 Introduction to Botany, 4 units
  - ZOOL 1050 Introduction to Zoology, 4 units(equivalent courses may be substituted with approval of minor adviser)
2. Complete a minimum of 12 units of upper-division course work, as approved by minor adviser.

## Liberal Studies Concentration in Biology

### Requirements (21 units)

1. Complete the following lower-division courses (6 units):
  - a. BOTY 1050 Introduction to Botany, 4 units, *or*  
ZOOL 1050 Introduction to Zoology, 4 units. (Either BOTY 1050 or ZOOL 1050 will satisfy the BIOL 1010, 1020 requirement in the Liberal Studies program.)
  - b. BIOL 2310 Human Genetics, 2 units, *or*  
BIOL 2650 Environmental Biology, 3 units.
2. Select one upper-division course dealing with the diversity of biological organisms, 4 units (to be selected from either Botany, Entomology, Microbiology, or Zoology. Acceptable courses are indicated by an asterisk in the course description section of the catalog.)
3. Select 11 upper-division units of biological sciences electives. (Students are encouraged to select courses dealing with the physiological and ecological aspects of biology.)

## Teaching Credentials

Majors in Biological Sciences interested in multiple subject or single subject credentials are referred to the "School of Education, Teacher Education" section of this catalog for a description of teaching credential programs.

An approved single subject waiver is available for students declaring Life Science as their subject matter teaching area. The waiver requirements in Life Science for students interested in obtaining a single subject teaching credential are the same as those listed for the Biological Sciences major (Bachelor of Arts). Please refer to the description of other single subject credential requirements in the "School of Education, Teacher Education" section of this catalog.

Students must carefully plan their academic program with their adviser to complete the approved waiver program at graduation.

## Master of Science in Marine Science Marine Biology Concentration

The Department of Biological Sciences in conjunction with Moss Landing Marine Laboratories offers a Master of Science in Marine Science degree in areas of marine biology. Please contact the Department of Biological Sciences office for further information and for admission procedures to this degree program.

### Course Descriptions

#### *Biology: Lower Division*

**BIOL 1010 Principles of Biology (3 units).** Introduction to basic biological phenomena common to all living organisms. Cellular and molecular levels of organization, genetics, and the mechanisms of heredity in organic evolution, environmental associations, structure as it relates to function, and reproduction from the molecular to gross structural levels. (Lecture, 3 hours) Prerequisite: Concurrent enrollment in one BIOL 1020–1029 lab. (Fall, Winter, Spring)

**BIOL 1020–1029 Special Laboratory Studies (Topics to be specified in Class Schedule) (1 unit).** Basic laboratory and/or field studies in various biological areas. Satisfies laboratory requirement in natural sciences. Different topics can be taken for credit under this number, but may be taken only once for GE credit. (Laboratory, 3 hours) Prerequisite: BIOL 1010 or concurrent enrollment. (Fall, Winter, Spring)

**BIOL 2310 Human Genetics (2 units).** Basic principles of heredity and evolution particularly as they apply to humans. (Note: This course will not meet the upper-division genetics requirement.) (Lecture, 2 hours) (Fall, Spring)

**BIOL 2400 Biology and the Sea (2 units).** An introduction to oceans, some animals and plants that live in oceans and various habitats, and adaptations of animals and plants to these habitats within the oceans. (Lecture, 2 hours)

**BIOL 2650 Environmental Biology (3 units).** Basic ecological concepts as they apply to present-day resource management and human environmental problems, including wildlife, forest, soil, water, air, and mineral resources. Ecological aspects of air and water pollution, human population growth, pesticide use, and energy consumption. (Lecture, 3 hours) (Fall, Winter, Spring)

**BIOL 2950 Selected Topics in Biology (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of biology. Topics vary each term, thus different topics may be taken for credit.

#### *Biology: Upper Division*

**BIOL 3000 Frontiers in Biology (3 units).** Consideration of different topics of biology that are currently in the forefront of research and public awareness. Emphasis is on further development of biological principles learned in lower-division general education courses in natural sciences and in preparing people to deal with questions and decisions relating to biological developments affecting their lives. Topics vary from semester to semester but may include genetic engineering, ecology, cancer research, agricultural developments, disease treatment and control, wildlife and endangered species. (Lecture; 3 hours) Prerequisite: Completion of lower-division general education in natural sciences and mathematics. (Fall, Spring)

**BIOL 3020 Introduction to Evolution (3 units).** An introduction to organic evolution for students unacquainted with the subject. Its implications extend far beyond the confines of biology, ramifying into all phases of human life and activity. (Lecture, 3 hours) Prerequisite: Junior standing. (Fall, Winter)

**BIOL 3100 Biological Illustration (3 units).** Techniques of illustrating to include rough drafts and pencil drawings, ink renderings, graphs, maps, lettering, etc., with emphasis placed on biological materials. (Lecture, 2 hours; activity, 3 hours) Prerequisite: Consent of instructor. (Winter)

**BIOL 3310 Cellular and Molecular Biology (3 units).** Basic concepts of cellular phenomena dealt with at the molecular level of organization. (Lecture, 3 hours) Prerequisites: BOTY 1050, ZOOL 1050, CHEM 1100, 1110, or equivalent. (Fall, Spring)

**BIOL 3330 Introduction to Microscopy (3 units).** Theoretical basis and practical uses of various types of light and electron microscopes; what kinds of microscopes yield what kinds of information; how information is recorded. (Lecture, 3 hours) Prerequisite: One year of college-level biology.

**BIOL 3340 Techniques of Electron Microscopy (4 units).** Practical use of the electron microscope and supporting techniques. (Lecture, 1 hour; laboratory, 6 hours) Prerequisite: BIOL 3330 or consent of instructor prior to registration.

**BIOL 3350 Introductory Genetics (3 units).** Introduction to classical, molecular, and population genetics. Modern applications including genetic engineering and biotechnology will be discussed. (Lecture, 3 hours) Prerequisite: BOTY 1050, ZOOL 1050, CHEM 1100, 1110, or equivalent. (Fall, Spring)

**BIOL 4220 General and Cellular Physiology (4 units).** Physical and chemical properties of protoplasm, permeability, metabolism, and nuclearcytoplasm interaction. (Lecture, 2 hours; laboratory, 6 hours) Prerequisites: Two years of college-level biology and CHEM 3010, 3012, or equivalent. Satisfies physiology elective for the major. (Fall)

**BIOL 4310 Histological and Cytological Techniques (4 units).** Principles and practice of preparing tissues for microscopy study. (Lecture, 2 hours; laboratory, 6 hours) Prerequisite: Two years of college-level biology or equivalent. (Fall)

**BIOL 4630 Marine Biology (4 units).** Study of marine communities with emphasis on local communities. Ecology and natural history of plants and animals, and their adaptation to marine environments are stressed. (Lecture, 3 hours; laboratory, 3 hours; field trips) Prerequisites: BOTY 1050, ZOOL 1050 or equivalent, and one semester invertebrate zoology, or BOTY 3100, or consent of instructor. (Satisfies ecology elective for the major.)

**BIOL 4650 Aquatic Biology (4 units).** The biota of fresh water with emphasis on the ecology, identification, physiology, and behavior of aquatic organisms. (Lecture, 3 hours; laboratory, 3 hours; field trips) Prerequisites: BOTY 1050, ZOOL 1050, and CHEM 1100, 1110, or equivalent. Satisfies ecology elective for the major. (Spring)

**BIOL 4680 Ecology (4 units).** Basic interrelationships of plants and animals within their physical environments. (Lecture, 3 hours; laboratory, 3 hours; field trips) Prerequisites: BOTY 1050, ZOOL 1050, and statistics or calculus. Satisfies ecology elective for the major. (Fall)

**BIOL 4820 Cytogenetics (2 units).** Chromosome structure and behavior, structural changes in chromosomes, euploidy, and aneuploidy as related to genetic and heritable abnormalities. (Lecture, 2 hours) Prerequisite: BIOL 3350.

**BIOL 4830 Evolution and Population Genetics (2 units).** Basic concepts of evolutionary theory and population genetics. Emphasis upon the processes and mechanisms of evolution through genetic changes in populations. (Lecture, 2 hours) Prerequisite: BIOL 3350. (Fall)

**BIOL 4840 Molecular Genetics (2 units).** The nature of the gene and how it is replicated. The genetic code and control of protein synthesis. Genetics of viruses and bacteria and the regulation of gene function. (Lecture, 2 hours) Prerequisite: BIOL 3310, 3350. (Spring)

**BIOL 4842 Recombinant DNA Laboratory (1 unit).** Isolation, analysis, and manipulation of DNA, emphasizing the techniques fundamental to genetic engineering. (Laboratory, 3 hours) Prerequisites: BIOL 3350 and consent of instructor.

**BIOL 4910 Cooperative Education (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 4 units. Prerequisites: Junior standing and consent of departmental coordinator. (Fall, Spring)

**BIOL 4940 Internship in Biology (2–4 units).** Supervised work in an agency or business related to the biological sciences. Six to twelve hours per week. A weekly one-hour seminar will be held to discuss career related topics and the work experience aspect of the course. Prerequisites: Junior or senior level biology major; consent of instructor. (Fall, Spring)

**BIOL 4950 Selected Topics in Biological Sciences (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of biological sciences. Topics vary each term, thus different topics may be taken for credit.

**BIOL 4960 Biology Colloquium (1 unit).** Presentation and discussion of selected biological phenomena through the study of biological literature and research. Topics will include both basic and applied research. May be repeated for a total of 6 units, 2 of which can be applied to the major. (Spring)

**BIOL 4965 Seminar: Advanced Cellular and Molecular Biology (3 units).** Emphasis on the structural and metabolic compartmentation that exists within living cells. Discussions on the biochemistry, microbiology, genetics, physiology, pathology, pharmacology, and molecular anatomy of cells. Prerequisites: BIOL 3310, 3840, CHEM 3020, and consent of instructor.

**BIOL 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Spring)

### **Postbaccalaureate**

**BIOL 5900 Directed Field Research (2–4 units).** Field research conducted off-campus under the general supervision of a faculty member, but under the specific direction of someone from an outside agency. Prerequisite: Bachelor's degree and consent of instructor. (Fall, Spring)

**BIOL 5980 Individual Study (1–4 units).** For qualified students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Spring)

**BIOL 5990 Master's Thesis (3–6 units).** Preparation, completion, and submission of an acceptable thesis or project for the master's special major degree. This course may be repeated for a total of 6 units. Prerequisites: Open only to graduate students with the consent of student's graduate adviser. (Fall, Spring)

### **Botany: Lower Division**

**BOTY 1050 Introduction to Botany (4 units).** Introduction to the fundamental aspects of plant biology; taxonomy, anatomy, morphology, physiology, and ecology. (Lecture, 3 hours; laboratory, 3 hours). Prerequisite: Grade of A or B in high school biology, satisfactory score on biology qualifying examination, or BIOL 1010. (Fall, Spring)

**BOTY 2950 Selected Topics in Botany (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of botany. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

### **Botany: Upper Division**

**BOTY 3000 Principles of Plant Propagation (3 units).** Techniques, facilities, and materials used in the propagation and maintenance of horticulturally important plants. The water, temperature, and light requirements of domesticated plants are also considered, as well as methods of pest/disease control. (Lecture, 2 hours; laboratory, 3 hours; field trips) Prerequisite: BOTY 1050 or equivalent. (Winter)

**BOTY 3050 Plants, Agriculture, and Man (2 units).** The use of plants in agriculture and the role of humans in their domestication. New approaches to food and energy production are examined in the context of impending natural resource limitations. (Lecture, 2 hours) Prerequisite: BOTY 1050 or equivalent.

**BOTY 3100 Survey of Nonvascular Plants (4 units).** Natural history and taxonomy of the algae, fungi, lichens, mosses, and liverworts. This course will satisfy the diversity requirement. (Lecture, 3 hours; laboratory, 3 hours; field trips) Prerequisite: BOTY 1050 or equivalent. (Spring)



**BOTY 3120 Morphology of Vascular Plants (4 units).** Comparative study of structure, development, ecology, and evolutionary importance of psilophytes, club mosses, horsetails, ferns, and seed plants. This course will satisfy the diversity requirement. (Lecture, 3 hours; laboratory, 3 hours; field trips) Prerequisite: BOTY 1050 or equivalent. (Fall)

**BOTY 3500 Introductory Plant Pathology (4 units).** Nature, cause, and control of plant diseases with emphasis on economic agriculture crops. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: BOTY 1050 or equivalent.

**BOTY 3700 Flowering Plants (4 units).** Structure, kinds, taxonomic relationships, and classification of local flowering plants with practice in their collection and identification. This course will satisfy the diversity requirement. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: BOTY 1050 or equivalent. (Spring)

**BOTY 4001 Plant Cytology and Tissue Development (3 units).** Structure, and function of cell parts; growth and morphogenesis of cells and tissues. (Lecture, 3 hours) Prerequisite: BOTY 3120 or consent of instructor.

**BOTY 4100 Anatomy of Seed Plants (4 units).** Microscopic study of structure and development of plant tissues with emphasis on tissues of seed plants. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: BOTY 3120 or consent of instructor.

**BOTY 4200 Plant Physiology (4 units).** Selected topics pertaining to metabolism, nutrition, and growth of plants. (Lecture, 2 hours; laboratory, 6 hours) Prerequisites: BOTY 1050 or equivalent, BIOL 3310, and CHEM 3010, 3012 or equivalent. (Satisfies physiology elective for the major.) (Spring)

**BOTY 4600 Plant Ecology (4 units).** Study of the interrelationships between plants and their environment, with special emphasis on the structure, development, and causes of distribution of plant communities. (Satisfies the ecology elective for the major.) (Lecture, 3 hours; laboratory, 3 hours; field trips) Prerequisite: One year of college-level biology, including BOTY 1050, CHEM 1100, 1110, or equivalent. (Fall)

**BOTY 4950 Selected Topics in Botany (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected branch of botany. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

**BOTY 4980 Individual Study (1-4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

### **Entomology: Upper Division**

**ENTO 3000 Principles of Entomology (4 units).** Classification, control, life history, structure, ecology, and basic physiology of insects. This course will satisfy the diversity requirement. This course will satisfy the diversity requirement. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: ZOOL 1050 or equivalent. (Fall)

### **Zoology: Upper Division**

**ZOOL 3130 Vertebrate Embryology (5 units).** Comparative study of embryological stages of various selected vertebrate forms and developmental microanatomy of their organ systems. (Lecture, 3 hours; laboratory, 6 hours) Prerequisite: ZOOL 1050 or equivalent.

**ZOOL 3150 Comparative Anatomy of Vertebrates (5 units).** Comparative study of microanatomy and gross morphology of organ systems in representative vertebrates. (Lecture, 3 hours; laboratory, 6 hours) Prerequisite: ZOOL 1050 or equivalent.

**ZOOL 3600 Introduction to Ethology (3 units).** A general survey of forms of animal behavior and methods of study. (Lecture, 3 hours) Prerequisite: BOTY 1050, ZOOL 1050, or consent of instructor.

**ZOOL 3610 General Vertebrate Zoology (4 units).** Natural history, behavior, ecology, environmental physiology, and zoogeography of the vertebrates with emphasis on the ecological roles of vertebrates in their natural communities. Laboratory and field studies of local forms. This course will satisfy the diversity requirement. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: One year college-level biology. (Fall)

**ZOOL 3660 Birdwatching in Central California (3 units).** Field experience in becoming familiar with the identification, habits and habitats of birds of Central California. Emphasis on identifying species in the field. (Lecture, 1 hour; activity, 4 hours; field trips) Prerequisite: ZOOL 1050 and consent of instructor.

**ZOOL 4151 Animal Cells and Tissues (4 units).** Study of various animal cell types and tissues with emphasis on their microstructure and functional relationships. Photomicrography and microphotography will be part of the laboratory experience. (Lecture, 3 hours; laboratory 3 hours) Prerequisite: One year of college-level biology, including ZOOL 1050, plus CHEM 1110.

**ZOOL 4230 Animal Physiology (4 units).** A physiological approach to the evolution of vertebrate organ systems. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisites: BIOL 3310, and CHEM 3010, 3012, or equivalent. (Satisfies physiology elective for the major.)

**ZOOL 4420 Invertebrate Zoology I (4 units).** Structure, classification, distribution, and life histories of invertebrate groups including Protozoa, Porifera, Cnidaria, Acoelomates, Pseudocoelomates, and related phyla. This course will satisfy the diversity requirement. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: Three college-level biology courses, including ZOOL 1050, or consent of instructor. (Fall)

**ZOOL 4430 Invertebrate Zoology II (4 units).** Structure and classification, distribution, and life histories of invertebrate phyla, including Annelida, Arthropoda, Mollusca and related groups. This course will satisfy the diversity requirement. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: Three college-level biology courses, including ZOOL 1050, or consent of instructor. ZOOL 4420 recommended. (Spring)

**ZOOL 4440 General Parasitology (4 units).** Parasitism with emphasis on parasites of man. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: Two years of college-level biology or equivalent. (Fall)

**ZOOL 4620 Herpetology (4 units).** Anatomy, behavior, classification, distribution, ecology, evolution, and life histories of amphibians and reptiles. This course will satisfy the diversity requirement. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: ZOOL 3150 or ZOOL 3610 or consent of instructor.

**ZOOL 4630 Ornithology (4 units).** Behavior, classification, economic importance, evolution, life histories, migration, and special modifications of birds. Identification in field and laboratory. This course will satisfy the diversity requirement. (Lecture, 2 hours; laboratory, 6 hours; field trips) Prerequisite: ZOOL 3150 or 3610 or consent of instructor. (Spring)

**ZOOL 4640 Mammalogy (4 units).** Classification, distribution, ecology, behavior, and form and function as they relate to life histories of mammals; identification in the field and laboratory. This course will satisfy the diversity requirement. (Lecture, 2 hours; laboratory, 6 hours; weekend field trips). Prerequisite: ZOOL 3150 or 3610 or consent of instructor.

**ZOOL 4650 Field Study: Wood Duck (1 unit).** Students will become acquainted with the nesting biology of wood ducks during an introductory meeting and weekly field observations. Students will monitor several nest boxes placed near various waterways in Stanislaus County. Copies of field observations will be turned in weekly and at the end of the semester, along with final interpretation of data. May be repeated for up to 2 units. Prerequisite: ZOOL 1050 or consent of instructor. (Spring)

**ZOOL 4950 Selected Topics in Zoology (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected branch of zoology. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

**ZOOL 4980 Individual Study (1-4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

## The Bachelor of Science Major (31 units)

1. Complete the following courses, (25 units):
  - CHEM 3010, 3020 Organic Chemistry I, II, 6 units
  - CHEM 3012, 3022 Organic Chemistry Laboratory I, II, 2 units
  - CHEM 4010, 4020 Physical Chemistry I, II, 6 units
  - CHEM 4032 Physical Chemistry Laboratory, 2 units
  - CHEM 4100 Instrumental Analysis, 4 units
  - CHEM 4200 Advanced Inorganic Chemistry, 3 units
  - CHEM 4212 Advanced Chemistry Laboratory, 2 units
2. Select a minimum of six credit hours from the following courses:
  - CHEM 4300 Advanced Organic Chemistry, 3 units
  - CHEM 4400 Biochemistry I, 3 units
  - CHEM 4402 Biochemistry Laboratory I, 1 unit
  - CHEM 4420 Biochemistry II, 3 units
  - CHEM 4610 Computer Methods in Chemistry, 2 units
  - CHEM 4940 Chemistry Internship, 2-4 units
  - CHEM 4950 Selected Topics in Chemistry, 1-5 units
  - CHEM 4960 Research Seminar, 1 unit
  - CHEM 4961 Seminar on Directed Readings, 1 unit
  - CHEM 4980 Individual Study, 1-4 units
  - PHYS 3520 Modern Physics and Quantum Mechanics, 3 units
  - PHYS 4450 Nuclear and Particle Physics, 3 units
  - PHYS 4530 Thermal and Statistical Physics I, 4 units

*Note:* The following courses are required for those students who wish to receive an ACS accredited degree:

- CHEM 4610 Computer Methods in Chemistry, 2 units, *and*
- MATH 2510 Linear Algebra and Applications, 4 units, *or*
- MATH 3250 Ordinary Differential Equations, 4 units

## Chemistry Minor

### Requirements (18 units)

Successful completion of 18 units in Chemistry as approved by the department, including a minimum of 8 upper-division units, with a GPA of 2.0 or higher.

## Environmental Sciences Concentration

A Chemistry major may complete additional requirements in the sciences and mathematics to qualify for a concentration in Environmental Sciences. This program requires study in biological sciences, chemistry, mathematics, and physical sciences, along with an environmental seminar and investigation of an environmentally related problem. Further details are found in the "Environmental Sciences" section of this catalog.

## Liberal Studies Concentration in Chemistry

### Requirements (20 units)

Complete the following courses for a concentration in chemistry within the Liberal Studies degree:

- CHEM 1110 Principles of Chemistry II, 5 units\*
- CHEM 3010, 3020 Organic Chemistry I, II, 6 units
- CHEM 3012, 3022 Organic Chemistry Lab I; II, 2 units
- Upper-division electives in chemistry as approved by the department, 7 units

## Teaching Credentials

The major requirements in the physical sciences for students interested in obtaining a single subject teaching credential waiver are listed below. Please refer to the "School of Education, Teacher Education" section of the catalog for a description of other requirements to be completed in obtaining a single subject credential.

### Physical Science Waiver Program with a Major in Chemistry (49 units)

A degree in Chemistry may be earned together with a Physical Sciences Waiver. This can be done by satisfying the degree requirements for a B.A. or B.S. in Chemistry and completion of the Physical Sciences Waiver Program shown below:

#### I. Core Subject Units (34 units)

##### a. Chemistry (14 units)

- CHEM 1100 Principles of Chemistry I, 5 units
- CHEM 1110 Principles of Chemistry II, 5 units
- CHEM 3010 Organic Chemistry I, 3 units
- CHEM 3012 Organic Chemistry Lab I; 1 unit

##### b. Physics (13 units)

- PHYS 2250 General Physics I, 4 units
- PHYS 2260 General Physics II, 4 units
- PHYS 2252 General Physics Lab I, 1 unit
- PHYS 2262 General Physics Lab II, 1 unit
- PHYS 3520 Modern Physics and Quantum Mechanics, 3 units

##### c. Earth Science and Astronomy (7 units)

- ASTR 2100 Descriptive Astronomy, 3 units
- GEOL 2100 Principles of Geology, 4 units

#### 2. Breadth/Depth Units (select 15 units)

- CHEM 3020 Organic Chemistry II, 3 units
- CHEM 3022 Organic Chemistry Lab II, 1 unit
- CHEM 4010 Physical Chemistry I, 3 units
- CHEM 4020 Physical Chemistry II, 3 units
- CHEM 4032 Physical Chemistry Lab, 1 unit
- CHEM 4200 Advanced Inorganic Chemistry, 3 units
- CHEM 4400 Biochemistry I, 3 units
- PHYS 3010 Introduction to Mathematical Physics I, 3 units
- PHYS 3100 Classical Mechanics, 4 units
- PHYS 3320 Electricity and Magnetism I, 3 units
- PHYS 3330 Electricity and Magnetism II, 3 units
- PHYS 3800 Fundamentals of Nuclear Energy, 3 units
- PHYS 4102 Advanced Physics Lab, 1 unit
- ASTR 3000 Contemporary Astronomy, 3 units
- ASTR 4200 Planetary and Space Science, 3 units

\*CHEM 1100, which is a prerequisite for this course, can be taken in place of CHEM 1000 for those Liberal Studies students opting for the chemistry concentration.

- CHEM 1110 Principles of Chemistry II, 5 units\*  
 CHEM 3010, 3020 Organic Chemistry I, II, 6 units  
 CHEM 3012, 3022 Organic Chemistry Lab I, II, 2 units  
 Upper-division electives in chemistry as approved by the department, 7 units

## Teaching Credentials

The major requirements in the physical sciences for students interested in obtaining a single subject teaching credential waiver are listed below. Please refer to the "School of Education, Teacher Education" section of the catalog for a description of other requirements to be completed in obtaining a single subject credential.

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#### I. Core Subject Units (34 units)

##### a. Chemistry (14 units)

- CHEM 1100 Principles of Chemistry I, 5 units  
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 CHEM 3010 Organic Chemistry I, 3 units  
 CHEM 3012 Organic Chemistry Lab I, 1 unit

##### b. Physics (13 units)

- PHYS 2250 General Physics I, 4 units  
 PHYS 2260 General Physics II, 4 units  
 PHYS 2252 General Physics Lab I, 1 unit  
 PHYS 2262 General Physics Lab II, 1 unit  
 PHYS 3520 Modern Physics and Quantum Mechanics, 3 units

##### c. Earth Science and Astronomy (7 units)

- ASTR 2100 Descriptive Astronomy, 3 units  
 GEOL 2100 Principles of Geology, 4 units

#### 2. Breadth/Depth Units (select 15 units)

- CHEM 3020 Organic Chemistry II, 3 units  
 CHEM 3022 Organic Chemistry Lab II, 1 unit  
 CHEM 4010 Physical Chemistry I, 3 units  
 CHEM 4020 Physical Chemistry II, 3 units  
 CHEM 4032 Physical Chemistry Lab, 1 unit  
 CHEM 4200 Advanced Inorganic Chemistry, 3 units  
 CHEM 4400 Biochemistry I, 3 units  
 PHYS 3010 Introduction to Mathematical Physics I, 3 units  
 PHYS 3100 Classical Mechanics, 4 units  
 PHYS 3320 Electricity and Magnetism I, 3 units  
 PHYS 3330 Electricity and Magnetism II, 3 units  
 PHYS 3800 Fundamentals of Nuclear Energy, 3 units  
 PHYS 4102 Advanced Physics Lab, 1 unit  
 ASTR 3000 Contemporary Astronomy, 3 units  
 ASTR 4200 Planetary and Space Science, 3 units

\*CHEM 1100, which is a prerequisite for this course, can be taken in place of CHEM 1000 for those Liberal Studies students opting for the chemistry concentration.

**CHEM 4010 Physical Chemistry I (3 units).** The three laws of thermodynamics, equilibrium, critical properties of gases, osmosis, phase rule, electrochemistry, chemical kinetics, molecular structure, and spectroscopy. (Lecture, 3 hours) Prerequisites: One year of calculus and one year of physics. (Fall)

**CHEM 4020 Physical Chemistry II (3 units).** Continuation of CHEM 4010 (Lecture, 3 hours) Concurrent enrollment in CHEM 4032 required. Prerequisites: MATH 1420, CHEM 4010. (Spring)

**CHEM 4021 Additional Topics in Physical Chemistry (1 unit).** An introduction to either chemical kinetics or molecular spectroscopy, depending upon the student's interest. The course is intended for B.A. chemistry majors and others desiring a survey of, either of these, topics, and is not open to B.S. chemistry majors. Prerequisite: CHEM 4010. (Spring)

**CHEM 4032 Physical Chemistry Laboratory (1 or 2 units).** Laboratory applications of the principles of physical chemistry. (Laboratory, 3 or 6 hours) Prerequisites: CHEM 4010 and concurrent enrollment in CHEM 4020, if the course is taken for 2 units, CHEM 4010 only, if the course is taken for 1 unit. (Spring)

**CHEM 4100 Instrumental Analysis (4 units).** Instrumental methods of chemical analysis including discussion of the theory and application of nuclear magnetic resonance, electron spin resonance, mass spectroscopy, infrared, Raman, visible ultraviolet and atomic absorption spectroscopy; flame photometry; X-ray diffraction; neutron activation and analysis; ESCA; specific ion electrode methods; gas, liquid, and ion-exchange chromatography. Concurrent enrollment in lecture (CHEM 4100, 2 hours) and laboratory (CHEM 4102, 6 hours) is required. Prerequisites: CHEM 2010, 3020 and 4010, or consent of instructor. (Spring)

**CHEM 4200 Advanced Inorganic Chemistry (3 units).** Atomic structure, periodic properties, theories of bonding, structure, introduction to coordination chemistry, and reactions of representative elements. (Lecture, 3 hours) Prerequisite: CHEM 4010 or consent of instructor. (Spring)

**CHEM 4212 Advanced Chemistry Laboratory (2 units).** An advanced level course involving modern synthetic and instrumental techniques with an emphasis on inorganic chemistry. Prerequisites: CHEM 4010, 4200, or consent of instructor. (Spring)

**CHEM 4300 Advanced Organic Chemistry (3 units).** Chemical kinetics, structure-reactivity relationships, molecular orbital theory, orbital symmetry, reactive intermediates, rearrangements and neighboring group effects; nucleophilic aliphatic substitution, photochemistry. (Lecture, 3 hours) Prerequisite: CHEM 3020. (Fall)

**CHEM 4400 Biochemistry I (3 units).** Basic chemistry, metabolism and energy relationships of amino acids, proteins, nucleic acids, carbohydrates and lipids. Introductory enzymology. Prerequisite: CHEM 3020 or consent of instructor. (Fall)

**CHEM 4402 Biochemistry Laboratory I (1 unit).** An introduction to biochemical techniques including chromatography, purification of biological molecules, spectrophotometry, and fluorimetry. (Laboratory, 3 hours). Prerequisite: Concurrent enrollment in CHEM 4400 or consent of instructor. (Fall)

**CHEM 4420 Biochemistry II (3 units).** An in-depth continuation of CHEM 4400. Additional topics will include biosynthetic reactions, vitamins, membranes, hormones, molecular physiology, enzyme mechanisms, biochemical thermodynamics, and photosynthesis. Prerequisite: CHEM 4400 or equivalent. (Spring)

**CHEM 4610 Computer Methods in Chemistry (2 units).** Computer programming applied to typical problems in chemistry. (Lecture, 1 hour, laboratory, 3 hours) Prerequisites: CHEM 2010, MATH 1420, and CS 1500, or equivalent. (Spring)

**CHEM 4910 Cooperative Education (2-4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units. Prerequisites: Sophomore standing; CHEM 2010, 3020, 3022, and consent of the department's Co-op Coordinator. (Fall, Spring)

**CHEM 4940 Chemistry Internship (2-4 units).** This course is designed for students in chemistry who wish to apply their educational experience to a practical situation in a public or private agency. Prerequisites: CHEM 2010, 3020, 3022 and consent of Department Internship Coordinator. (Fall, Winter, Spring)

**CHEM 4950 Selected Topics in Chemistry (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected branch of chemistry. Topics vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**CHEM 4960 Research Seminar (1 unit).** The presentation of research results or topical literature surveys by students and visiting scientists. May be repeated for a total of 2 units. Prerequisite: CHEM 3010 or consent of instructor. (Spring)

**CHEM 4961 Seminar on Directed Readings (1 unit).** The presentation and discussion by students of research papers taken from the current chemical literature. Prerequisite: Consent of instructor. (Spring)

**CHEM 4980 Individual Study (1-4 units).** For qualified students desiring to do research or to pursue the study of some specialized topic. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)

### **Postbaccalaureate**

**CHEM 5980 Individual Study (1-4 units).** For qualified postbaccalaureate students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)



- d.** Select one of the following Family courses:
- ANTH 4165 The Family in Cross-Cultural Perspective, 3 units, *or*
  - ETHS 4000 The Mexican American Family, 3 units, *or*
  - ETHS 4010 The Black American Family, 3 units, *or*
  - SOCL 3150 The Family, 3 units
- e.** Complete both of the following capstone courses:
- PSYC 4965 Child Development Senior Seminar, 1 unit *and*
  - PSYC 4948 Child Development Senior Internship, 2 units
- 3.** Complete one of the following tracks: (15 units)
- a. Child Development Programs Track (Child Development Programs Certificate):**
- i.** Complete the following (8 units)
    - PSYC 4180 Developmental Programs for Preschool Children, 3 units, *and*
    - PSYC 4190 Developmental Programs Laboratory, 1 unit
    - PSYC 4960 Organization & Administration of Early Childhood Education Programs, 4 units
  - ii.** CDC Internships (2 units minimum):
    - PSYC 4945 Internship at Child Development Center as Instructor's Aide, 1 unit, *or*
    - PSYC 4946 Internship at Child Development Center as Head Teacher, 2 units, *or*
    - PSYC 4947 Internship at Child Development Center as Assistant Administrator, 2 units
  - iii.** PSYC 4940 Fieldwork in Psychology (2 units minimum)
  - iv.** \*Elective, upper-division, upon advisement, 3 units
- b. Child Development Research Track (Child Development Research Certificate):**
- i.** Complete the following: (10 units)
    - SSCI 3000 Library Resources for the Social Sciences, 2 units
    - PSYC 3000 Experimental Methods, 4 units
    - PSYC 3120 Human Development Research Lab, 1 unit
    - PSYC 4974 Child Development Research Methods, 3 units
  - ii.** PSYC 4940 Fieldwork in Psychology (2 units minimum)
  - iii.** \*Elective, upper-division, upon advisement 3 units
- c. Child Development Services Track (Child Development Services Certificate):**
- i.** Complete the following: (6 units)
    - PSYC 4130 Psychological Disorder of Children, 3 units
    - PSYC 4150 Learning Disabilities, 3 units
    - SOCL 4790 Social Welfare Services, 3 units
  - ii.** PSYC 4940 Fieldwork in Psychology (3 units minimum)
  - iii.** \*Elective, upper-division, upon advisement, 3 units
- d. General Track:** Select 15 units of upper-division classes from the following list of \*electives. A general track plan must be developed with the student's academic advisor and submitted to the Child Development Committee for approval.

\*Electives: Select elective course work from the courses listed below. Electives within the track may not be cross counted for the courses required within the major core. The total number of units to complete a track is 15 upper-division units. The

- PSYC 4130 Psychological Disorders of Children, 3 units  
 PSYC 4150 Learning Disabilities, 3 units  
 PSYC 4180 Developmental Programs for Preschool Children,  
 3 units, *and*  
 PSYC 4190 Developmental Programs Lab, 1 unit  
 PSYC 4910 Cooperative Education, 2-4 units (must be approved by  
 adviser)  
 PSYC 4920 Topics in Child Development, 1-4 units  
 PSYC 4940 Field work in Psychology, 1-2 units (must be approved by  
 adviser)  
 PSYC 4945 Internship at CDC as Instructional Aide, 1 unit  
 PSYC 4946 Internship as Head Teacher, 2 units  
 PSYC 4947 Internship as Administrative Assistant, 2 units  
 PSYC 4960 Organization and Administration of Preschool  
 Programs, 4 units  
 PSYC 4965 Child Development Senior Seminar, 2 units *and*  
 PSYC 4948 Child Development Senior Internship, 1 unit  
 SOCL 3150 The Family, 3 units  
 SOCL 3160 Sociology of Youth, 3 units  
 SPCH 3010 Language and Speech Development, 3 units  
 SPCH 3400 Oral Interpretation of Children's Literature, 3 units  
 SPCH 3610 Introduction to Communication Disorders, 3 units



## The Child Development Center

**Office:** Educational Services Building, (209) 667-3036  
**Director:** Rita Asher

The CSU, Stanislaus Child Development Center (CDC) is an instructional facility within the College of Arts, Letters, and Sciences established to teach University students about child development, program design, and research. About 200 students from disciplines such as the arts, communication studies, education; psychology, sociology, and child development participate at the Center each semester. Through participation in successive laboratory courses, students acquire skills in observing children and recording their behaviors, planning and implementing activities, and completing original research projects.

The Center provides paid positions for students each semester. CSU, Stanislaus has the only child development laboratory in the CSU system that employs students as head teachers, instructional aides, and administrators. As students complete their course work and gain experience, they are encouraged to compete for increasingly challenging positions. Those who continue participation at the Center gain experience teaching young children, supervising college students, and sharing administrative duties. All CDC staff positions are coordinated with University courses to provide excellent supervised practicum experiences.

For additional information regarding the Child Development Center, contact Dr. Rita Asher, Director, 667-3036.

## State of California Children's Center Permits

California requires that individuals who serve as Teachers and Administrators of funded child development programs hold permits issued by the California Commission for Teacher Credentialing. The following requirements are currently in effect for the Children's Center Permits granted by the State of California; see the University Credentialing officer or County Department of Education for periodic updates to State requirements.

Courses and laboratories in child development may be used toward Children's Center Permits and will be reviewed by the State credentialing officer on a case-by-case basis. See your academic adviser for coursework that is likely to meet these requirements. Applications for the Child Center Permit may be picked up in the University Credentials office.

### Requirements for Instructional Children's Center Permit

1. Complete 24 units of course work in early childhood education/child development (exclusive of field work), including the following:
  - a. child/human growth and development;
  - b. child, family, and community, or child and family relations;
  - c. programs/curriculum.

*Note: A minimum grade of "C" is required in each course.*

2. Fulfill one of the following requirements:
  - a. two years' experience in an instructional capacity as a paid aide or assistant in a child development program;
  - b. a certificate from a commission-approved, field-based assessment system;
  - c. three years' experience as a volunteer in an instructional capacity in a child development program;
  - d. supervised field work plus one year of experience in an instructional capacity in a child development program.
3. Complete 16 units of general education course work.
4. Demonstrate proficiency in basic reading, writing, and mathematics skills by one of the following:
  - a. passage of a proficiency test developed by a school district;
  - b. completion of an associate or baccalaureate degree.

### Requirements for Supervisory Children's Center Permit

1. A regular Children's Center Instructional Permit.
2. Twelve semester units of upper-division course work in early childhood education/child development.
3. Six units of course work in administration and supervision of child development programs. One course must be upper-division or graduate level.
4. Two years of experience as a teacher in a child development program.
5. A bachelor's or higher degree granted by an approved institution.
6. Passage of the California Basic Educational Skills Test (CBEST).



## Cognitive Studies

Department Office: Classroom 108, (209) 667-3371  
 Coordinator's Office: Classroom 231, (209) 667-3386  
 Center for Telecommunications Courses: L-156  
 667-3137 • FAX: 667-3333 • gentry@ctc.csustan.edu

**Coordinator:** Lin Myers (Psychology)

**Faculty:** Melvin H. Aamodt (Geography), Roberta T. Anderson (Communications Studies), Ida I. Bowers (Geography), Judith A. Brown (Biology), Martin L. Camarata (Art), Annhenrie Campbell (Accounting), Thomas J. Carter (Computer Science), Juan M. Flores (Teacher Education), Thomas A. Gentry (Cognitive Studies), Lin Myers (Psychology), James M. Goodwin (Director of Multimedia Software Laboratory, Computer Science, University of Aizu, Japan), David H. Lindsay (Accounting), John J. Sarraille (Computer Science), Richard Savini (Art), George E. Settera, Jr. (English), Nancy J. Taniguchi (History), James A. Tuedio (Philosophy), James A. Wakefield (Psychology), Joan A. Wink (Teacher Education).

The Cognitive Studies degree program offers an integrative approach to the study of cognitive processing. The program draws from the fields of Neuroscience, Computer Science, Linguistics, Art, Philosophy, Psychology, Biology, and Physics. Cognitive Studies emphasizes strategies for investigating how real and artificial brains process images and language, form concepts, and solve problems. Though several discipline-based courses provide important background knowledge and serve as points of departure for cognitive explorations, the degree program features integrative courses at the introductory and advanced levels. Central themes in the courses include the relationship between consciousness and cognitive processes, the emergence of adaptive pattern-recognition schemes, non-linear methods for modeling complex systems, the use of language, symbols, and images for representing and manipulating knowledge, memory and decision processes, the relation of thought to action, and the latest advances in machine intelligence.

Adequate investigation of these phenomena requires a synthesis of methods and considerable exposure to important new technological capacities. Thus, in addition to the broad-based conceptual analysis of intelligent systems, students will be trained in a diversity of electronic media, including telecommunications networks, artificial sensory and motor systems, data base management, and problems associated with human/machine interfaces. Students completing this program should expect to gain an appreciation for the general way in which empirical evidence, simulation, and conceptual analysis work together to enrich our understanding of the cognitive processes underlying intelligence and the ability to solve complex problems. The graduate in Cognitive Studies will have preparation for work in fields utilizing the modern information technologies, or for advanced studies in cognitive science and graduate programs concerned with cognitive development and performance.

## Bachelor of Arts, Cognitive Studies

### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (21 units):
  - a. Cognitive Studies (6 units):

COGS 2100	Introduction of Cognitive Studies, 3 units
COGS 2300	Cognitive Simulations, 3 units
  - b. Analysis and Methods (6 units minimum):

ART 1100	Two Dimensional Design, 3 units, <i>or</i>
ART 1200	Three Dimensional Design, 3 units
CS 1270	LISP Language Lab, 1 unit
MATH 1500	Finite Mathematics, 3 units
PHIL 2100	Logic, 3 units
  - c. Background Issues (9 units):

BIOL 1010	Principles of Biology, 3 units
PHIL 2230	Modern Philosophy, 3 units
PSYC 2010	Introduction to Psychology, 3 units
3. Complete the major of 39 units, as approved by the major adviser.

### The Major (39 units)

1. Required Courses (21 units):

ART 3700	Electronic Art and Design, 3 units
COGS 3100	Communications Networks, 3 units
COGS 4680	Neural Nets and Intelligent Machines, 4 units
COGS 4700	Intelligence, 3 units
PHIL 3500	Philosophy of Mind, 4 units
PSYC 3100	Introduction to Physiological Psychology, 4 units
2. Electives (18 units minimum):
  - a. Cognitive Science (two course minimum):

COGS 3150	Nonlinear Systems and Chaos, 4 units
COGS 3200	Human Factors, 3 units
COGS 4950	Selected Topics in Cognitive Studies, 1-5 units
CS 4450	Coding and Information Theory, 3 units
CS 4480	Artificial Intelligence, 3 units
PSYC 4520	Principles of Sensory Processes, 4 units
  - b. Consciousness and Creativity (two course minimum):

ART 4220	Imagination, 3 units
COGS 4100	Philosophical Aspects of Cognitive Science, 3 units
PHIL 4150	Cognitive Phenomenology, 3 units
PSYC 3170	Early Cognitive Development, 3 units
PSYC 4400	Cognitive Processes, 3 units
PSYC 4800	Origins of Human Consciousness, 3 units
  - c. Language and Meaning (two course minimum):

ANTH 3800	Introduction to Linguistics, 3 units, <i>or</i>
ENGL 3800	Introduction to Linguistics, 3 units

- |           |   |
|-----------|---|
| COGS 3300 | Cognition and Verbal Behavior, 3 units                |
| CS 4410   | Automata, Computability and Formal Languages, 3 units |
| PHIL 4300 | Philosophy of Language, 3 units                       |
| PHIL 4260 | Twentieth Century Philosophy, 3 units                 |
3. Honors in Cognitive Studies (9 additional units):
- |           |  |
|-----------|--|
| COGS 4200 | Science, Technology, and Human Values, 3 units |
| COGS 4960 | Seminar: Cognitive Science, 3 units            |
| COGS 4990 | Senior Project, 3 units                        |

## Degree Minor

### Requirements (25 units)

The Cognitive Studies Minor is designed for students majoring in collateral fields who plan graduate study in the area of cognitive science. It is also designed to accommodate students who desire a breadth of exposure to exciting empirical and theoretical developments in the study of cognitive processing.

#### 1. Required Courses (16 units):

- |           |  |
|-----------|--|
| ART 3700  | Electronic Art and Design, 3 units         |
| COGS 2100 | Introduction to Cognitive Studies, 3 units |
| COGS 2300 | Cognitive Simulations, 3 units             |
| COGS 4700 | Intelligence, 3 units                      |
| PHIL 3500 | Philosophy of Mind, 4 unit                 |

#### 2. Upper Division Electives (9 units minimum):

##### a. Cognitive Science (one course minimum):

- |           |   |
|-----------|---|
| COGS 3150 | Nonlinear Systems and Chaos, 4 units              |
| COGS 3200 | Human Factors, 3 units                            |
| COGS 4680 | Neural Nets and Intelligent Machines, 4 units     |
| COGS 4950 | Selected Topics in Cognitive Studies, 1-5 units   |
| CS 4450   | Coding and Information Theory, 3 units            |
| CS 4480   | Artificial Intelligence, 3 units                  |
| PSYC 3100 | Introduction to Physiological Psychology, 4 units |
| PSYC 4520 | Principles of Sensory Processes, 4 units          |

##### b. Consciousness and Creativity (one course minimum):

- |           |   |
|-----------|---|
| ART 4220  | Imagination, 3 units                                |
| COGS 4100 | Philosophical Aspects of Cognitive Science, 3 units |
| PHIL 4150 | Cognitive Phenomenology, 3 units                    |
| PSYC 3170 | Early Cognitive Development, 3 units                |
| PSYC 4400 | Cognitive Processes, 3 units                        |
| PSYC 4800 | Origins of Human Consciousness, 3 units             |

##### c. Language and Meaning (one course minimum):

- |           |   |
|-----------|---|
| ANTH 3800 | Introduction to Linguistics, 3 units, <i>or</i>       |
| ENGL 3800 | Introduction to Linguistics, 3 units                  |
| COGS 3100 | Communication Networks, 3 units                       |
| COGS 3300 | Cognition and Verbal Behavior, 3 units                |
| CS 4410   | Automata, Computability and Formal Languages, 3 units |
| PHIL 4300 | Philosophy of Language, 3 units                       |
| PHIL 4260 | Twentieth Century Philosophy, 3 units                 |

## Course Descriptions

### Lower Division

**COGS 2100 Introduction to Cognitive Studies (3 units).** Introduction to issues and methods relevant to the study of natural and artificial cognitive processes. Includes a survey of key developments fueling the Cognitive Revolution along with the major models influencing research on artificial intelligence, nonlinear dynamics (chaos theory), the brain/mind relationship, and their applications to human behavior and information processing.

**COGS 2300 Cognitive Simulations (3 units).** Introduction to empirical modeling of natural and artificial cognitive processing, utilizing simulation of such systems as Turing machines, neural networks, nonlinear systems and parallel processing modes of problem solving. Analysis of the theories and assumptions of artificial intelligence research. Applications of new computer technologies designed to replicate natural cognitive processing techniques.

**COGS 3100 Communication Networks (3 units).** The emergence of telecommunications networks is creating new environments for human interactions that are rapidly altering occupational and social dynamics. This course introduces students to the diversity of network technologies and provides them with sufficient hands-on skills to work in this field. Topics include resource sharing, resource access, and communication. Prerequisite: COGS 2100, 2300, Math 1500 or consent of instructor.

**COGS 3150 Nonlinear Systems and Chaos (4 units).** This course deals with the quantitative methods needed for work with nonlinear systems from many fields. Together with its laboratory, the course provides experience with phase space maps, Poincare sections, basins of attraction, and strange attractors, and with fractals and fractal dimensionality. It emphasizes systems best described by discrete mathematics. Prerequisite: COGS 2300 or consent of instructor.

**COGS 3200 Human Factors (3 units).** The human/machine interface provides the domain for human factors research and applications. The interaction between individual cognitive abilities and machines is a critical concern in the design and development of new technologies. This course provides the basic skills needed to optimize human performance. Prerequisite: COGS 2100 and 2300.

**COGS 3300 Cognition and Verbal Behavior (3 units).** Cognitive factors affecting the development and complexity of verbal behaviors are examined within the context of brain function and language environments. Prerequisite: COGS 2100 and 2300.

**COGS 4100 Philosophical Aspects of Cognitive Science (3 units).** Intensive examination of the conceptual foundations of Cognitive Science, with an emphasis on the philosophical aspects of current theoretical issues. Analysis will focus on behaviorism and functionalism as models for understanding human cognition. Constructive criticism of the representational model of mind; discussion of the significance of recent developments in neuroscience, and of the connectionist movement in artificial intelligence. Prerequisite: COGS 2100 or consent of instructor.

**COGS 4200 Colloquium on Science, Technology, and Human Values (3 units).** This telecommunications seminar explores the impact of science and technology on human behavior and values. Students will study the origins and principles of human valuation, the cross-cultural and individual differences in human values, how science and technology have influenced and altered human values in the past, and how current developments pose new challenges to humanity. Prerequisite: Consent of instructor.

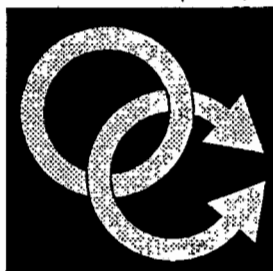
**COGS 4680 Neural Nets and Intelligent Machines (4 units).** This course with its associated laboratory deals with the current designs of cognitive machines that exploit the kind of adaptive parallel processing and self-organizing networks used by brains for learning, memory, visual imaging, and pattern recognition. The laboratory will emphasize the exploration of cognitive models using computer simulation. Prerequisite: COGS 2300 or consent of instructor.

**COGS 4700 Intelligence (3-units).** The origins and assessment of intelligence and its role in cognitive functions are examined within the psychometric and neuroscientific frameworks. Prerequisite: COGS 2100 and 2300.

**COGS 4960 Seminar in Cognitive Science (3 units).** Seminar will focus on current developments in the neurosciences and cognitive psychology. Prerequisite: Consent of instructor.

**COGS 4980 Individual Study (1-4 units).** For students capable of independent work who need advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor and coordinator of the Cognitive Studies program.





## Communication Studies

**Office:** Classroom Building 108; (209) 667-3371  
**Chair:** Fred P. Hilpert, Jr.,  
**Faculty:** Roberta T. Anderson, Fred P. Hilpert, Jr.,  
 Max C. Norton (Emeritus), John R. Sumser,  
 Jerry L. Weedon, Elizabeth A. Wilson,  
 Thomas J. Young

The Department of Communication Studies offers the degrees of Bachelor of Arts, Organizational Communication, and degree minors in journalism and speech communication.

The University offers the degree Bachelor of Arts, Social Sciences, with an interdepartmental major in Speech and any other two disciplines within the social sciences. (For further information, see the "Social Sciences" section of this catalog.)

The degree Bachelor of Arts, Liberal Studies, is also offered with Speech as an area of concentration. (For further information, see the "Liberal Studies" section of this catalog.)

The University offers the degree Bachelor of Arts in Cognitive Studies which is administered by the Department of Communication Studies. (For more information, see the "Cognitive Studies" section of this catalog.)

### Bachelor of Arts, Organizational Communication

Overall objectives of the program are to provide the student with opportunities to gain:

- An understanding of the theories and processes of human communication as a necessary part of one's education in the liberal arts and sciences.
- A requisite background in the diverse theories and methodologies of the discipline as a preparation for graduate study in the various fields of communication.
- A specialized knowledge of and proficiencies in the communicative arts and sciences for entrance into such professional programs as education, law, the ministry, public service, or business.

### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (6 units):
  - a. SPCH 2011 Approaches to Human Communication, 3 units, *or*  
 SPCH 2200 Introduction to Mass Media, 3 units,
  - b. SPCH 2000 Public Speaking, 3 units, *or*  
 SPCH 2110 Group Discussion Processes, 3 units, *or*  
 SPCH 2400 Oral Interpretation, 3 units
3. Complete one of the following courses in a supporting field (3 units):
  - a. ANTH 2060 Introduction to Cultural Anthropology, 3 units, *or*  
 ECON 2500 Principles of Economics I, 3 units, *or*  
 ECON 2510 Principles of Economics II, 3 units, *or*  
 PSYC 2010 Introduction to Psychology, 3 units, *or*  
 SOCL 1010 Introduction to Sociology, 3 units

**b. Strongly recommended:**

MATH.1600 Statistics, 4 units

4. Complete the major of not less than 31 upper-division units, as approved by the major adviser; majors must take all courses counted toward the major for a letter grade if the letter grade option is available.
5. Students must achieve a "C" grade or better in all prerequisites to the major.
6. Students must achieve a "C" grade or better in all courses that count toward fulfilling the requirements for the major.
7. Completion of a minor is not required. However, any student seeking a minor may not count course units in both the major and minor (double-counting). Program approval is required by both the major and minor adviser. Upper-division General Education courses may be counted as units in a minor.

**The Major (31 units)**

1. Complete the following required courses (19 units):
  - SPCH 3100 Advanced Interpersonal Communication, 3 units
  - SPCH 3140 Persuasive Messages, 3 units
  - SPCH 3900 Communication Research Methods, 4 units
  - SPCH 4000 Communication Theory, 3 units
  - SPCH 4110 Organizational Communication, 3 units
  - SPCH 4160 Intercultural Communication, 3 units
2. Select one course from the following (3 units):
  - SPCH 3120 Management Communication, 3 units, *or*
  - SPCH 4170 Professional Interviewing, 3 units, *or*
  - JOUR 3040 History of Journalism, 3 units
3. Select one course from the following (3 units)
  - SPCH 4060 Family Communication, 3 units, *or*
  - SPCH 4100 Group Communication, 3 units, *or*
  - SPCH 4120 Advanced Persuasion and Social Influence, 3 units
4. Select one course from the following (3-4 units):
  - MGT 3310 Management Theory and Practice, 3 units, *or*
  - MGT 4000 Organization and Environment, 3 units, *or*
  - SOCL 4800 Formal Organizations in Modern Society, 3 units, *or*
  - PSCI 4300 Organization Theory, 4 units
5. Select one course from the following (3 units):
  - SPCH 4200 Mass Communication Perspectives, 3 units, *or*
  - SPCH 4210 Public Relations, 3 units

**Minor in Speech Communication****Requirements (18 units)**

1. Complete the required lower-division course
  - SPCH 2011 Approaches to Human Communications, 3 units, *or*
  - SPCH 2200 Introduction to Mass Media, 3 units
2. Complete one of the following (3 units):
  - SPCH 2000 Public Speaking, 3 units, *or*
  - SPCH 2110 Group Discussion Processes, 3 units, *or*
  - SPCH 2400 Oral Interpretation, 3 units

3. Complete one of the following (3 units):
  - SPCH 3010 Language and Speech Development, 3 units, *or*
  - SPCH 3100 Advanced Interpersonal Communication, 3 units, *or*
  - SPCH 4160 Intercultural Communication, 3 units
4. Complete 9 units of upper-division courses approved by the minor adviser.

## International Program

The Department of Communication Studies supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses offered at CSU International Programs study centers abroad are equivalent to courses in the Department of Communication Studies and may be used to fulfill requirements for degree options offered by the Department and/or certain general education requirements. Students should consult the International Programs Bulletin (available at the circulation desk of the Library), a departmental adviser and/or the campus International Programs Adviser for more information.

## Liberal Studies Concentration in Communication Studies

### Requirements (21 units)

1. Complete the following required courses (21 units):
  - a. SPCH 2011 Approaches to Human Communication, 3 units
  - b. SPCH 2000 Public Speaking, 3 units, *or*
    - SPCH 2110 Group Discussion Processes, 3 units, *or*
    - SPCH 2400 Oral Interpretation, 3 units
  - c. Upper-division courses on advisement, 15 units

## Teaching Credentials

An approved single subject waiver is available to speech majors who wish to declare English as their subject matter teaching area, with applicable courses on advisement. Please refer to the "School of Education, Teacher Education" section of this catalog for a description of other requirements to be completed in obtaining a single subject credential.

## Speech Communication Sub-Areas

### *Theory and Methods*

- SPCH 2011 Approaches to Human Communication, 3 units
- SPCH 2200 Introduction to Mass Media, 3 units
- SPCH 3010 Language and Speech Development, 3 units
- SPCH 3140 Persuasive Messages, 3 units
- SPCH 3900 Communication Research Methods, 4 units
- SPCH 4000 Communication Theory, 3 units
- SPCH 4030 Communication Research Analysis, 4 units
- SPCH 4140 Rhetorical Theory, 3 units
- SPCH 4160 Intercultural Communication, 3 units
- SPCH 4200 Mass Communication Perspectives, 3 units

**Processes and Contexts**

- SPCH 3100 Advanced Interpersonal Communication, 3 units
- SPCH 3120 Management Communication, 3 units
- SPCH 4050 New Rules for Social Relationships, 3 units
- SPCH 4060 Family Communication, 3 units
- SPCH 4100 Group Communication, 3 units
- SPCH 4110 Organizational Communication, 3 units
- SPCH 4120 Advanced Persuasion and Social Influence, 3 units
- SPCH 4130 Communication and Aging, 3 units
- SPCH 4150 Nonverbal Communication, 3 units
- SPCH 4170 Professional Interviewing, 3 units
- SPCH 4180 Health Communication, 3 units
- SPCH 4210 Public Relations, 3 units
- SPCH 4950 Selected Topics in Speech, 1-4 units
- SPCH 4980 Individual Study, 1-4 units

**Applications and Communication Competence**

- SPCH 2000 Public Speaking, 3 units
- SPCH 2110 Group Discussion Processes, 3 units
- SPCH 2400 Oral Interpretation, 3 units
- SPCH 2911 Communication Projects, 2 units
- SPCH 3400 Oral Interpretation of Children's Literature, 3 units
- SPCH 3410 Advanced Oral Interpretation,
- SPCH 3911 Communication Projects, 2 units
- SPCH 3930 Community Forensics Practicum, 1-2 units
- SPCH 3960 Communication Colloquium, 1-2 units
- SPCH 4940 Organizational Communication Internship, 2-4 units

**Course Descriptions****Lower Division**

**SPCH 2000 Public Speaking (3 units).** Oral communication theory and practice in terms of the process, speaker, message, and audience. Emphasis on ethics, reasoning, evidence, listening, and criticism. Classroom activities include preparation, presentation, and criticism of speeches. (Fall; Spring)

**SPCH 2011 Approaches to Human Communication (3 units).** Introduction to the field of human communication as developed in contemporary theory and research. Recurrent variables in verbal and non-verbal interaction are traced through the intrapersonal, interpersonal, and multipersonal systems. (Fall)

**SPCH 2110 Group Discussion Process (3 units).** The development of basic skills in small group communication. Study of and practice in discussion methodology, types of discussion groups, information gathering, problem solving, decision making, and leadership roles. (Fall, Spring)

**SPCH 2200 Introduction to Mass Media (3 units).** This course will provide an overview of historical, theoretical, economic, and societal perspectives on the mass media. Topics of special interest will include violence, pornography, advertising, learning, and politics as related to the media. (Spring)

**SPCH 2400 Oral Interpretation (3 units).** Fundamentals of theory; techniques and practices in communicating from the printed page. (Fall)

**SPCH 2911 Communication Projects (2 units).** Project course for involvement of the student in a variety of speech and/or instructionally related activities. Options include such projects as campus speech activities, broadcasting, and participation in community projects. May be repeated for a total of 8 units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)

**SPCH 2950 Selected Topics in Speech (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected branch of speech communication. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

### **Upper Division**

**SPCH 3010 Language and Speech Development (3 units).** Development of normal speech and language, including the stages of development, the roles of learning and experience, phonological, morphological, grammatical, semantic, pragmatic, and effective aspects; cultural and dialectical factors. Prerequisites: Junior standing or consent of instructor. (Fall, Spring)

**SPCH 3100 Advanced Interpersonal Communication (3 units).** Structure and communication processes in two-person relationships. A review of the history, current theories and research findings in such areas as interpersonal attraction, mate selection, compatibility, power, love, sex roles, conflict, and divorce. Alternative forms of close relationships are analyzed, including friendship, cohabitation, and homosexual relations. Prerequisites: Junior standing or consent of instructor. (Fall, Winter, Spring)

**SPCH 3120 Management Communication (3 units).** The study and practice of communication principles, techniques, and forms required of managers in the organizational context. Emphasis upon message preparation and exchange in interviews, technical reports, panel-conferences, and public presentations. Prerequisite: Junior standing or consent of instructor. (Fall, Spring)

**SPCH 3140 Persuasive Messages (3 units).** Examination of the logical and psychological principles used in oral and written persuasive messages. Students will analyze the persuasive process and develop effective rhetorical messages. Ethical responsibility of the communicators will be considered. Satisfies upper division writing proficiency requirement. Prerequisite: Organizational Communication majors only, junior standing, WPST grade report of "pass," or consent of instructor. (Fall, Spring)

**SPCH 3400 Oral Interpretation of Children's Literature (3 units).** Application of principles of oral interpretation to children's literature. Types of children's literature with emphasis on criteria for selection of literature for oral interpretation, storytelling, as well as reading. Prerequisite: SPCH 2000, or SPCH 2100, or SPCH 2400, or consent of instructor. (Spring)

**SPCH 3900 Communication Research Methods (4 units).** Designed to acquaint students with forms of research in speech communication. Samples from the research literature will be studied from the points of view of the research problems posed, the designs employed, and the techniques required. Prerequisite: SPCH 2011 or 2200 and junior standing or consent of instructor. (Fall, Spring)

**SPCH 3911 Communication Projects (2 units).** Project course for involvement in a variety of communication and/or instructionally related activities. Options include such projects as campus speech activities, broadcasting, and participation in community projects. May be repeated for a total of 8 units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)

**SPCH 3930 Community Forensics Practicum (2 units).** Provides an opportunity to prepare for and participate in community forensics competition. Laboratory preparation offered for inexperienced participants prior to public presentation. Includes debate and individual speaking events. May be repeated for a total of 8 units. Prerequisites: ENGL 2000 or PHIL 2000 or consent of instructor. (Fall, Spring)

**SPCH 3960 Communication Colloquium (1–2 units).** The colloquium will address controversial areas of communication theory and practice, with particular attention to the potential impact of communication on culture, society, and the individual. Format will vary depending on the topic; however, guest lecturers will present contending viewpoints. May be repeated for a maximum of 4 units. (Fall, Spring)

**SPCH 4000 Communication Theory (3 units).** Communication models; natural and formal language systems; contributions of theories of information, semantics, psycholinguistics, cybernetics, and general systems to the study of communication. Prerequisites: SPCH 3140, SPCH 3900, and junior standing, or consent of instructor. (Spring)

**SPCH 4030 Communication Research Analysis (4 units).** Explores the formulation of research designs used in communication research techniques. Focuses on the nature of measurement, data analysis, and interpretation of findings. Includes the use of computer programs used in the calculation and reporting of results. Will involve understanding and performing basic research. Prerequisite: SPCH 3900 or SOCL 3030. (Fall)

**SPCH 4050 New Rules for Social Relationships (3 units).** This course analyzes in detail a variety of recently emerging relationship forms and the underlying values they express. New forms such as cohabitation, intimate friendships, homosocial and homosexual relationships, the single parent family, dual career marriage, childless marriage, and the blended family are examined to reveal important themes in contemporary society. Among these are a belief in autonomy, self-fulfillment, equalitarianism, rolelessness, impermanence, exchange orientation, emotional distance, and the primacy of career over parenting. Prerequisites: Junior standing or consent of instructor. (Spring)

**SPCH 4060 Family Communication (3 units).** Analyses of the family as a communication system, including the role of communication in family decision-making, expressing intimacy, using power, managing conflicts, achieving interdependence and socializing children. Prerequisites: SPCH 3140 and SPCH 3900, or consent of instructor. (Fall)

**SPCH 4100 Group Communication (3 units).** Studies in small group theory and research. Participation in informal task groups devoted to such concepts as cooperation and competition, power, roles, status, and leadership as these relate to the variables of communication and productivity. Prerequisites: SPCH 3140, SPCH 3900, or consent of instructor. (Fall)

**SPCH 4110 Organizational Communication (3 units).** Theory, problems, and practices of communication in organizations: business, industry, and public agencies. Examination of the factors involved in message transmission among various levels of management and operations, including the functioning of organizations through communication networks, and communicative contacts with other organizations and the public. Prerequisites: SPCH 3140, SPCH 3900, Organizational Theory course option, or consent of instructor. (Fall)

**SPCH 4120 Advanced Persuasion and Social Influence (3 units).** Principles of message construction derived from studies of motivation. Context, receiver, and media factors will be related to the development of message strategies, such as sidedness, the aspects of order, types of appeals, evocative language, and inoculation. Prerequisites: SPCH 3140 and SPCH 3900, or consent of instructor. (Fall)

**SPCH 4130 Communication and Aging (3 units).** This course provides a framework for better understanding the process of cross-generational communication and the improvement of communication competencies for interaction with older persons. Covers such topics as: Interpersonal communication dispositions of the long living, sensory barriers to effective communication, communication perspectives in social psychological theories of aging, and the influence of context. Prerequisite: Junior standing or consent of instructor. (Fall)

**SPCH 4140 Rhetorical Theory (3 units).** Rhetorical theory from classical to modern times. Influence of Aristotelian principles on development of rhetorical thought. Significant movements in development of rhetoric in France, Great Britain, and United States. Prerequisite: Junior standing or consent of instructor. (Winter)

**SPCH 4150 Nonverbal Communication (3 units).** Relationships of nonverbal communication with establishing, maintaining, and developing interpersonal interaction. Relationships between verbal and nonverbal components of communication. Recent trends that contribute to theories of nonverbal communication. Prerequisites: Junior standing or consent of instructor. (Spring)

**SPCH 4160 Intercultural Communication (3 units).** This course examines intercultural communication on the interpersonal level. In particular, it looks at the ways in which cultural differences can lead to misunderstandings. As such, the cultural assumptions brought to the interpersonal communication encounter will be explored. Through such inquiry, insights will be obtained about communicating competently with persons of other cultures. Prerequisite: Junior standing or consent of instructor. (Fall, Spring)

**SPCH 4170 Professional Interviewing (3 units).** Considers interviewing from a communication process perspective. Provides understanding and experience in developing skills and techniques applicable in various interview contexts: selection, appraisal, exit and research. Covers pre-interviewing planning, interview techniques, current EEO laws and standards, and post-interview processes. Useful for students in Business Administration, Education, Social Sciences, and Communication Studies. Prerequisite: Junior standing or consent of instructor. (Fall)

**SPCH 4180 Health Communication (3 units).** This course provides a framework for better understanding the processes and theories of Health Care Communication, and the improvement of communication competencies for interaction between Health Care professionals and the public they serve. Covers interpersonal, group, and organizational contexts. Also, examines intercultural and ethical elements of Health Care Communication. Prerequisites: SPCH 3140 and 3900, or consent of instructor. (Spring)

**SPCH 4200 Mass Communication Perspectives (3 units).** This course will examine the development of mass communication systems, with special emphasis on the role of broadcast media in contemporary societies. Mass media will be considered from several alternative perspectives useful in analysis, criticism, and practice. Particular attention will be given to interactions between technological systems, societal structure, and human communication processes. Prerequisites: SPCH 3140 and SPCH 3900, or consent of instructor. (Spring)

**SPCH 4210 Public Relations (3 units).** A perspective on public relations as integrated into overall workings of public and private organizational strategy and tactics. Key processes required in practice of public relations, and standards required for professionalism. Prerequisite: SPCH 3140 and SPCH 3900, or consent of instructor. (Spring)

**SPCH 4940 Organizational Communication Internship (2-4 units).** This course is designed for students in Organizational Communication who want to apply, integrate, and explore their educational experience as an intern in a public or private organization. May be repeated for credit. Prerequisite: Completion of 20 units in the Organizational Communication concentration. (Fall, Spring)

**SPCH 4950 Selected Topics in Speech Communication (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected branch of human communication. Topics may vary each term, thus different topics may be taken for credit. Prerequisites: Upper-division standing and consent of instructor.

**SPCH 4980 Individual Study (1-4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.





## Computer Science

**Office:** Computer Science Bldg 101, (209) 667-3185  
**Chair:** Thomas J. Carter  
**Faculty:** Thomas J. Carter, Lloyd A. Case, Robert S. Cunningham, Edward L. Lamie, John J. Sarraille, Raymond L. Zarling

The Department of Computer Science offers courses designed for quality undergraduate education to meet the needs of students majoring in computer science, as well as students in other fields with interests in differing aspects of the theory and practice of computing.

The department offers the degree Bachelor of Science. This program is accredited by the Computer Science Accreditation Commission (CSAC) of the Computing Sciences Accreditation Board (CSAB). The degree program is designed to prepare those completing it for careers in the computing profession as well as for advanced studies. The degree program presupposes seven semesters of college preparatory mathematics. In addition, courses in foreign languages and in logic would be useful.

The department also offers a minor in computer science.

## Bachelor of Science, Computer Science

### Requirements

1. Complete University requirements for a Bachelor of Arts or Bachelor of Science degree (51 units minimum).
2. Complete the prerequisites to the major. No more than 8 units of CR-graded course work may apply toward the prerequisites to the major.
3. Complete the major of not less than 37 upper-division units.
4. Complete one upper-division course in Chemistry or Physics/Physical Sciences (3-4 units).

No upper-division course which applies to the major or to the electives may be taken on a CR-graded basis except for CS 4910 (Cooperative Education) and CS 4960 (Seminar in Computer Science). Prerequisites to the major are expected to be completed before upper-division computer science courses are taken. Completion of a minor is not required.

### Prerequisites to the Major

CS 1500	Computer Programming I, 3 units
CS 2500	Computer Programming II, 3 units
CS 2700	Assembly Language and Computer Architecture, 3 units
MATH 1410	Calculus I, 4 units
MATH 1420	Calculus II, 4 units
MATH 1620	Probability and Statistics, 4 units
MATH 2510	Linear Algebra and Applications, 4 units
MATH 2300	Discrete Structures, 3 units

*Either one of these sequences:*

PHYS 2250, 2260 General Physics I, II with labs, 10 units, *or*  
 CHEM 1100, 1110 Principles of Chemistry I, II, 10 units

Recommended course: The course below may be recommended, depending on the student's professional goals:

CIS 2010 Cobol Programming and Information Systems, 3 units

### The Major (37 units)

1. Complete the following required courses (16 units):
  - CS 3050 File Processing, 3 units
  - CS 3100 Data Structures and Algorithms, 3 units
  - CS 3740 Computer Organization, 3 units
  - CS 3750 Operating Systems I, 3 units
  - CS 4100 Programming Languages, 3 units
  - CS 4960 Seminar in Computer Science, 1 unit
2. Depth Requirement (9 units). Complete three of the following:
  - CS 4300 Compiler Theory, 3 units
  - CS 4410 Automata, Computability and Formal Languages, 3 units
  - CS 4440 Theory of Algorithms, 3 units
  - CS 4480 Artificial Intelligence, 3 units
  - CS 4800 Software Engineering, 3 units
3. Select 12 units from the following courses. A course may not be used as an elective if it is used to satisfy the depth requirement; at least 9 units must be in computer science courses.
  - CS 3000 Communication Networks, 3 units
  - CS 3200 Computer Simulation Techniques, 3 units
  - CS 3600 Computer Graphics I, 3 units
  - CS 4250 Database Management Systems, 3 units
  - CS 4300 Compiler Theory, 3 units
  - CS 4410 Automata, Computability and Formal Languages, 3 units
  - CS 4440 Theory of Algorithms, 3 units
  - CS 4450 Coding and Information Theory, 3 units
  - CS 4480 Artificial Intelligence, 3 units
  - CS 4600 Computer Graphics II, 3 units
  - CS 4750 Operating Systems II, 3 units
  - CS 4800 Software Engineering, 3 units
  - CS 4910 Cooperative Education, 2-4 units
  - CIS 4770 Systems Analysis and Design, 3 units
  - MATH 4510 Modern Algebra with Applications I, 4 units
  - MATH 4350 Numerical Analysis I, 4 units
  - MATH 4360 Numerical Analysis II, 4 units
  - PHYS 4250 Analog and Digital Electronics, 4 units

### The Minor

Complete 24 units of computer science course work from the courses listed below to include a minimum of 9 upper-division units:

1. Complete the following lower-division classes:
  - CS 1500 Computer Programming I, 3 units
  - CS 2500 Computer Programming II, 3 units
  - CS 2700 Assembly Language and Computer Architecture, 3 units

*One of the following year sequence of courses (6-8 units):*

MATH 1410, 1420 Calculus I, II, 8 units

MATH 1910, 1920 Calculus with Applications I, II, 6 units

2. Select a minimum of 9 upper-division units as outlined below:

CS 3050 File Processing, 3 units

CS 3100 Data Structures and Algorithms, 3 units

One upper-division CS course as approved by an adviser, 3 units

## Course Descriptions

### Lower Division

**CS 1000 Introduction to Computers (3 units).** An introduction to the computer for the non-computer science major. Selected computer applications, beginning programming, review of hardware and software, social impact of computing, and the future of the computer. Use of microcomputers. (Fall, Spring)

**CS 1200–1350 Programming Language Laboratory (1 unit).** Intensive study of a programming language. Total credit earned in CS 1200–1350 may not exceed three units. Credit may not be earned in a particular lab if credit for that programming language has already been earned. CS 1200, Ada Lab; CS 1210, APL Lab; CS 1220, Basic Lab; CS 1230, C Lab; CS 1240, Cobol Lab; CS 1250, Forth Lab; CS 1260, Fortran Lab; CS 1270, Lisp Lab; CS 1280, Logo Lab; CS 1290, Modula 2 Lab; CS 1300, Pascal Lab; CS 1310, PL/I Lab; CS 1320, Prolog Lab; CS 1330, Snobol Lab. These courses are offered as dictated by interest and staffing. Prerequisite: Working knowledge of at least one programming language.

**CS 1500 Computer Programming I (3 units).** The usual entry course for computer science majors. Algorithm development and problem solving methods. Design and development of computer programs using a structured programming language such as Pascal. Prerequisite: Two years of high school algebra. (Fall, Spring)

**CS 1700 Computer Programming for Scientific Applications (3 units).** An introduction to the use of the computer in scientific applications, using an appropriate language such as Fortran or PL/I. The course will cover data analysis techniques, real-time techniques, use of subroutine libraries, and algorithms such as the fast Fourier transform. Prerequisites: CS 1500 and MATH 1410.

**CS 2500 Computer Programming II (3 units).** Continued development of discipline in program design, in style and expression, and in debugging and testing, especially for larger programs. Introduction to algorithmic analysis, string processing, recursion, internal search/sort methods, and simple data structures. Introduction to professional methodologies and ethics. Prerequisite: CS 1500. (Fall, Spring)

**CS 2700 Assembly Language and Computer Architecture (3 units).** Computer programming at the machine level. Machine language and basic machine architecture, addressing modes, subprogram linkage, program sectioning and overlays, I/O programming, macros, and interrupts. Prerequisite: CS 2500. (Fall, Spring)

### Upper Division

**CS 3000 Communication Networks (3 units).** The emergence of telecommunications networks is creating new environments for human interactions that are rapidly altering occupational and social dynamics. This course introduces students to the diversity of network technologies and provides them with sufficient hands-on skills to work in this field. Topics include resource sharing, resource access, and communication; an overview of network history, services, topologies, and protocols; a

discussion of local area networks, wide area networks, and internetworks; connection-based and connection-less links; addressing, routing, and reliability. Additional topics may include study of existing networks; organizations committed to the support and fostering of networking; transmission media, hosts, bridges, routers, and gateways; performance analysis and monitoring; layered network design; security; standardization goals; TCP/IP and X.25; and practical advice on building a network. Prerequisite: COGS 2100, 2300, Math 1500 or consent of instructor.

**CS 3050 File Processing (3 units).** Study of the physical and logical characteristics of data stored on external storage devices. Data structures used to organize such information. Access methods and details of working with file systems. Prerequisite: CS 2500. (Fall, Spring)

**CS 3100 Data Structures and Algorithms (3 units).** Fundamental concepts and abstraction of data structures. The design and analysis of algorithms involving such data structures as arrays, stacks, queues, lists, trees, strings, graphs, and files. Techniques for estimating the time and memory requirements of computer programs. Several large programming assignments. Prerequisite: CS 2500. (Fall, Spring)

**CS 3200 Computer Simulation Techniques (3 units).** Introduction to simulation, planning computer simulation experiments, simulation models. Simulation methodology, design of experiments, analysis of data validation of models and results. Programming selected applications using simulation languages such as GPSS or simscript. Prerequisites: MATH 1600 or 1610 or 1620 ECON 3205; and CS 1500 or CIS 2010. (Spring)

**CS 3600 Computer Graphics I (3 units).** An introduction to computer graphics. Geometry and graphics primitives, graphics devices, 2D and 3D transformations, clipping, 3D modeling and viewing, curves and surfaces, hidden lines and surfaces, applications. Prerequisite: CS 3100; MATH 2510 is recommended. (Fall)

**CS 3740 Computer Organization (3 units).** Basic computer architecture including one-address machines, two-address machines, stack machines, addressing methods, memories, I/O multiprogramming, multiprocessing, and microprogramming. Prerequisite: CS 2700. (Fall, Spring)

**CS 3750 Operating Systems I (3 units).** An introduction to computer operating systems, including batch, multiprogramming, multiprocessing, and time sharing. Topics include sequential processes, concurrent process, memory management, segmentation, scheduling algorithms, security, and ethical issues relating to security and privacy. Prerequisites: CS 3100 and 3740. (Fall)

**CS 4000 Personal Computing (3 units).** This course will give the student the knowledge and experience needed to use a personal computer effectively. A range of computers and software will be available; as much as possible, the student will be able to learn about systems which are directly usable in his or her area of study. Topics will include discussions of computer hardware, the range of capabilities of the personal computer, how to evaluate a piece of software, and how software is written. Prerequisite: Upper-division standing. (Fall, Winter, Spring)

**CS 4100 Programming Languages (3 units).** Study of programming language concepts such as binding, data structures, string handling, control structures, as embodied in various programming languages. Satisfies upper division writing proficiency requirement. Prerequisite: CS 3100. (Spring)

**CS 4250 Database Management Systems (3 units).** Data definition and manipulation of selected commercially available Database Management Systems. Hierarchic, network and relational data models. Implementation of a Database Management System. Prerequisites: CS 3050 and 3100. (Spring)

**CS 4300 Compiler Theory (3 units).** Lexical, syntactic, and semantic analyses and syntax directed translation of programming languages. Includes symbol table construction, error diagnostics, and code generation. Prerequisite: CS 4100.

**CS 4410 Automata, Computability, and Formal Languages (3 units).** Finite state concepts; sequential machines and state minimization; Chömsky grammar; algorithms on grammars; computability and Turing machines; non-computable functions. Prerequisite: CS 4100.

**CS 4440 Theory of Algorithms (3 units).** Algorithms for combinatorics; for numerical problems, including matrix operations; for systems programming applications; and for artificial intelligence; domain-independent techniques. Prerequisite: CS 3100.

**CS 4450 Coding and Information Theory (3 units).** Topics to be selected from error detecting and correcting codes, encryption and decryption techniques, RSA and knapsack codes, algebraic coding theory, Hamming distance, sphere packing and its relation to optimal codes, Hamming, Huffman and Gray codes, entropy, channel capacity and Shannon's theorem, bandwidth and the sampling theorem. Prerequisite: CS 3100 or MATH 2300 or equivalent.

**CS 4480 Artificial Intelligence (3 units).** Notational systems, structures and strategies for their choice; search strategies; parallel vs. serial processing; communication and perception; applications in psychology, medicine, and robotics. Prerequisite: CS 3100.

**CS 4600 Computer Graphics II (3 units).** Advanced topics in three-dimensional computer graphics. Emphasis on producing high quality images on raster devices. Object modeling, lighting and color models, surfaces, antialiasing, ray tracing. Additional topics in texture mapping, object-oriented graphics, advanced graphics hardware, or animation may be covered. Prerequisites: CS 3600 and MATH 2510 or equivalent. (Spring)

**CS 4750 Operating Systems II (3 units).** Concurrent processes, deadlock, and synchronization; name management; resource allocation; protection; advanced architectures. (Formerly 3760) Prerequisite: CS 3750. (Spring)

**CS 4800 Software Engineering (3 units).** A formal introduction to techniques in software design, development and verification. A large part of the course is a team project on which students will work on a large software project. (Formerly 3800) Prerequisites: CS 3050 and 3100. (Fall)

**CS 4910 Cooperative Education (2-4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisites: Sophomore standing and consent of Departmental Coordinator. (Fall, Winter, Spring)

**CS 4950 Selected Topics in Computer Science (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of computer science. Topics vary each term. Different topics may be taken for a maximum of 6 units. Prerequisites: Senior standing and consent of instructor.

**CS 4960 Seminar in Computer Science (1 unit).** Presentation and discussion of selected topics in computer science from the current literature. Prerequisites: Senior standing and consent of instructor.

**CS 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.



## Criminal Justice

**Office:** Classroom Bldg 213, (209) 667-3408  
**Coordinator:** Cecil A. Rhodes

The Department of Sociology and Criminal Justice offers an interdisciplinary program leading to the Bachelor of Arts degree in Criminal Justice with optional course concentrations in Law Enforcement and Corrections. The program offers an appreciation of the full complexity of American criminal justice and permits students the opportunity to understand fully the social changes and technological progress in criminal justice agencies. The major requires a variety of courses pertaining to the administration of criminal justice and an equal number of courses on the nature and social causes of criminal behavior.

To prepare students for careers in highly competitive criminal justice positions, the department offers student: (1) the courses rated by criminal justice faculty and professionals across the United States as being the most valuable in their careers; and (2) internships in law enforcement, the courts, corrections, and other branches of criminal justice.

### Bachelor of Arts in Criminal Justice

#### Requirements

1. Complete the University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the Major (15 units):
  - CJ 2250 Introduction to Criminal Justice, 3 units
  - CJ 2260 Evidence, 3 units
  - CJ 2270 Criminal Investigations, 3 units
  - CJ 2280 Criminal Law, 3 units
  - SOCL 1010 Introduction to Sociology, 3 units
3. Complete the major of not less than 29 upper-division units in Criminal Justice and Sociology courses, of which no more than 8 units of CR-graded course work in courses graded exclusively CR/NC may apply toward the major.
4. Maintain a grade of "C" or better in the major. Completion of a minor is not required.

#### The Major (29 units)

1. Complete the following core required courses (14 units):
  - CJ 4151 Constitutional Criminal Procedures, 4 units
  - CJ 4930 Directed Criminal Justice Research, 4 units
  - SOCL 3120 Criminology, 3 units
  - SOCL 3130 Juvenile Delinquency, 3 units

2. Complete the following courses (15 units):

- CJ 3130 Introduction to Corrections, 3 units
- CJ 3160 Fundamentals of Law Enforcement, 3 units
- CJ 4135 Correctional Law, 3 units
- CJ 4150 Probation and Parole, 3 units
- SOCL 4170 Victimology, 3 units

### Elective Concentrations within the Criminal Justice Major

A student who elects to have a concentration in Corrections or Law Enforcement may do so by completing the prerequisites to the major, the core requirements for the major, and the requirements for the concentration. The following concentrations are offered:

#### Corrections Concentration (15 units minimum)

1. Complete the following courses (9 units):

- CJ 3130 Introduction to Corrections, 3 units
- CJ 4135 Correctional Law, 3 units
- CJ 4150 Probation and Parole, 3 units

2. Complete 2 of the following 9 courses (6 units minimum):

- CJ 4165 Criminal Judicial Process, 3 units
- CJ 4260 Criminal Justice Seminar, 3 units
- CJ 4940 Criminal Justice Internship, 3 units
- SOCL 3240 Social Deviance, 3 units
- SOCL 4190 Treatment of the Offender, 3 units
- SOCL 4730 Alcohol and Alcoholism, 3 units
- SOCL 4750 Sociology of Drug Use, 3 units
- SOCL 4920 Nutrition and Behavior, 4 units
- Selected Winter Term course, 3-4 units

#### Law Enforcement Concentration (15 units minimum)

1. Complete the following courses (6 units):

- CJ 3160 Fundamentals of Law Enforcement, 3 units
- SOCL 4170 Victimology, 3 units

2. Complete 3 of the following 10 courses (9 units minimum):

- CJ 4165 Criminal Judicial Process, 3 units
- CJ 4260 Criminal Justice Seminar, 3 units
- CJ 4940 Criminal Justice Internship, 3 units
- SOCL 3240 Social Deviance, 3 units
- SOCL 4180 Organized and White Collar Crime, 3 units
- SOCL 4730 Alcohol and Alcoholism, 3 units
- SOCL 4750 Sociology of Drug Use, 3 units
- SOCL 4920 Nutrition and Behavior, 4 units
- SPCH 4210 Public Relations, 3 units
- Selected Winter Term course, 3-4 units



## Degree Minor

### Requirements

1. Complete the following lower-division courses (12 units):

- CJ 2250 Introduction to Criminal Justice, 3 units
- CJ 2270 Criminal Investigations, 3 units
- CJ 2280 Criminal Law, 3 units
- SOCL 1010 Introduction to Sociology, 3 units

2. Complete the following upper-division courses (10 units):

- CJ 4151 Constitutional Criminal Procedures, 4 units
- SOCL 3120 Criminology, 3 units
- SOCL 3130 Juvenile Delinquency, 3 units

### Course Descriptions

#### *Lower Division*

**CJ 2250 Introduction to Criminal Justice (3 units).** Provides an overview of the criminal justice system. The focus is on the role of law enforcement, the courts, corrections and their relationships. The definition, measurement, and causes of crime are also discussed. (Fall, Spring)

**CJ 2260 Evidence (3 units).** A case study and statutory analysis of the origins, development, and philosophy of criminal evidence. Includes the application and process of evidence collection; its preservation, maintenance, and use in criminal trials; burden of proof, relevancy, hearsay rules, and impeachment. Prerequisite: CJ 2250 or consent of instructor. (Spring)

**CJ 2270 Criminal Investigations (3 units).** Explores detection, interrogation, development of evidence, and apprehension. Stringent evidentiary standards based on the Constitution, statutory law, and administrative regulations for law enforcement and correctional personnel are reviewed as they apply to various aspects of investigations. In addition to reviewing the rule of law, the underlying ethical, social, and moral issues which direct the investigator's role are examined. Prerequisite: CJ 2250 or consent of instructor. (Spring)

**CJ 2280 Criminal Law (3 units).** Using a case study approach, criminal law traces the historical development and current principles and rules which determine the substantive criminal law. Topics include the purpose of criminal law; principles of liability; defenses involving excuses or justifications; and crimes against person, property, and public order. Prerequisite: CJ 2250 or consent of instructor. (Fall)

#### *Upper Division*

**CJ 3130 Introduction to Corrections (3 units).** Provides the historical development of community-based and institutional programs. Using competing philosophical goals—retribution, deterrence, incapacitation, and rehabilitation—various current programs such as probation, parole, diversion, and institutional treatment are contrasted and future trends are projected. Prerequisite: CJ 2250 or consent of instructor. (Fall)

**CJ 3160 Fundamentals of Law Enforcement (3 units).** The historical development of policing from its English origins to contemporary America. The focus is on social, political, and ethical issues connected with various police roles and responsibilities as defined by the rule of law. Topics include discretion, deadly force, corruption, stress, narcotics and vice enforcement, professionalism, styles of policing, and police-community relations. Prerequisite: CJ 2250 or consent of instructor. (Fall)

**CJ 4135 Correctional Law (3 units).** Using a case study approach, the new and developing field of applied correctional law deals with the rights, responsibilities, and liabilities of correctional personnel working in county, state, or federal capacities. The course details differences which occur depending on the status of the offender, i.e., juvenile or adult, county or state, probation or parole, and defendant or prisoner. Prerequisite: CJ 2250 or consent of instructor. (Spring)

**CJ 4150 Probation and Parole (3 units).** The historical development, current practices, and future direction of probation and parole are discussed. The course explores the balancing of two competing objectives, i.e., the protection of society and the needs of the offender. The various primary roles of investigator, counselor, court officer, and supervisor are examined in light of competing objectives. Prerequisite: CJ 2250 or consent of instructor. (Fall)

**CJ 4151 Constitutional Criminal Procedures (4 units).** Case study and analysis of the constitutional requirements and constraints in the criminal justice process. Focus is on the application of substantive and procedural due process under the Fourteenth Amendment: Arrest, warrants, search and seizure, exclusionary rule, confessions, double jeopardy, privilege against self-incrimination, right to counsel, speedy trial, and cruel and unusual punishment. For the one unit activity credit, students are required to research and draft a legal memorandum supported by points and authorities, and to present their findings in the form of oral argument. Prerequisite: CJ 2250 and CJ 2280 or consent of instructor. (Spring)

**CJ 4165 Criminal Judicial Process (3 units).** A detailed analysis of judicial processing, from booking to sentencing, of individuals accused of crimes. Includes lecture and case study approach of substantive and procedural issues concerning pre-trial motions and hearings, arraignments, bail, plea bargaining, trials, and sentencing. May include field trips to selected courts. Prerequisite: CJ 2250 or consent of instructor. (Fall)

**CJ 4260 Criminal Justice Seminar (3 units).** Sociological analysis of the history, politics, and economics of criminal justice. Course will focus on theory and research, ideology of crime control and criminal justice reform. Prerequisite: Consent of instructor.

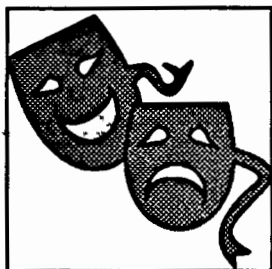
**CJ 4910 Cooperative Education (2-4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of eight units depending on departmental policy. Prerequisites: Sophomore standing and consent of departmental coordinator. (Fall, Winter, Spring)

***CJ 4930 Directed Criminal Justice Research (4 units).*** Directed social science research applied to gathering data in criminal justice and criminological research. The focus will be on special problems encountered in research settings and groups where information about crime is to be gathered and analyzed. Includes review of research. Prerequisites: SOCL 1010 and CJ 2250. (Fall, Spring)

***CJ 4940 Criminal Justice Internship (3 units).*** Allows the student who is considering a career in law enforcement, the courts, or corrections the opportunity to work alongside experienced professionals, assist them in their duties, and develop hands-on experience. Prerequisite: CJ 2250 or consent of instructor. (Fall, Spring)

***CJ 4950 Selected Topics in Criminal Justice (Topics to be specified in Class Schedule) (1–5 units).*** Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

***CJ 4980 Individual Study (1–4 units).*** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.



## Drama

**Office:** Drama Building 15, (209) 667-3451  
**Chair:** Jere D. Wade  
**Faculty:** Noble T. Dinse, Richard Levering, Douglas McDermott, Jerome O'Donnell, M.B. Sahlman, Jere D. Wade

The Department of Drama offers the degree, Bachelor of Arts, Drama. The department trains undergraduates as general practitioners in the art of theatre. The curriculum balances theoretical and practical work while featuring a close relationship between courses and production. Students and faculty work together on all aspects of production in a 300-seat mainstage theatre and a 100-seat studio. Upon completion of the drama major, a student should be able to collaborate with others in the operation of a theatre or to qualify for further professional training as an artist or as a scholar. Courses in the drama curriculum also provide aesthetic and cultural enrichment for liberal arts students.

## Bachelor of Arts, Drama

### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (9 units):
  - DRAM 1010 Introduction to Theatre, 3 units
  - DRAM 1500 Acting for Non-Drama Majors, 3 units\*
  - DRAM 2300 Theatre Workshop I, 3 units
3. Complete the major of not less than 40 upper-division units as approved by the major adviser.
4. Completion of a minor is not required.

### The Major (40 units)

1. Complete the following required courses (40 units):
  - DRAM 3200 Stagecraft I, 3 units
  - DRAM 3210 Makeup, 3 units
  - DRAM 3240 Costuming, 3 units
  - DRAM 3250 Stagecraft II, 3 units
  - DRAM 3510 Classical Theatre, 3 units
  - DRAM 3520 Romantic and Modern Theater, 3 units
  - DRAM 3530 Contemporary Theatre, 3 units

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\* Majors should consult with instructor before enrolling.

- DRAM 4350 Rehearsal and Performance, 6 units
- DRAM 4510 Intermediate Acting, 3 units
- DRAM 4520 Advanced Acting, 3 units
- DRAM 4600 Directing, 3 units
- DRAM 4960 Senior Seminar, 4 units

**Note:** *Elective Courses: The following special interest courses are available, but may not be substituted for Major requirements.*

- DRAM 3020 Children's Theatre, 3 units
- DRAM 4020 Performance for Children, 4 units
- DRAM 4550 American Theatre, 3 units
- DRAM 4560 Theatre in the Schools, 4 units

### **The Minor (24 units)**

1. Complete the lower-division course:
  - DRAM 1010 Introduction to Theatre, 3 units
  - DRAM 1500 Acting for Non-Drama Majors, 3 units
2. Complete the following upper-division courses (12 units):
  - a. DRAM 3200 Stagecraft I, 3 units
  - b. DRAM 3210 Makeup, 3 units, *or*
  - DRAM 3240 Costuming, 3 units
  - c. DRAM 4510 Intermediate Acting, 3 units
  - d. DRAM 4600 Directing, 3 units
3. Select six units from the following:
  - DRAM 3510 Classical Theatre, 3 units
  - DRAM 3520 Romantic and Modern Theatre, 3 units
  - DRAM 3530 Contemporary Theatre, 3 units
  - DRAM 4550 American Theatre, 3 units

### **Liberal Studies Concentration**

#### **Requirements (21 units)**

1. Complete the following lower-division courses (6 units):
  - DRAM 1010 Introduction to Theatre, 3 units
  - DRAM 1500 Acting for Non-Drama Majors, 3 units
2. Complete the following upper-division courses (15 units):
  - a. DRAM 3200 Stagecraft I, 3 units
  - b. DRAM 3210 Makeup, 3 units, *or*
  - DRAM 3240 Costuming, 3 units
  - c. DRAM 4600 Directing, 3 units
  - d. Two courses selected from the following (6 units):
    - DRAM 3250 Stagecraft II, 3 units
    - DRAM 4020 Performance for Children, 4 units
    - DRAM 4510 Intermediate Acting, 3 units
    - DRAM 4520 Advanced Acting, 3 units

## Teaching Credentials

Students majoring in drama who are interested in obtaining an English single subject credential waiver are referred to a description of the waiver program in the "English" section of this catalog. Please also refer to the "School of Education, Teacher Education" section of this catalog for a description of other single subject credential requirements. State credential procedure provides that an individual holding a single subject teaching credential in one discipline may apply for a "supplementary authorization" to teach another subject if the individual has taken either 20 semester units total or ten upper-division semester units of college course work in the supplementary subject. The Drama Department recommends completing the degree minor in drama for this purpose.

## Course Descriptions

### *Lower Division*

**DRAM 1010 Introduction to Theatre (3 units).** Introductory survey of theatrical art. The theatre as an art form; elements of theatre; classroom practice in the fundamentals of theatrical production. (Fall, Spring)

**DRAM 1110 Playgoing (3 units).** Understanding and appreciation of live theatrical performance by both amateurs and professionals. Attending at least five plays. May require field trips to Bay Area. May be repeated for credit. (Fall, Spring)

**DRAM 1500 Acting for Non-Drama Majors (3 units).** An introductory course for those with limited theatrical experience. Exercises designed to acquaint the student with the requirements of public performance, as well as to assist them in group presentation and dynamics. (Fall, Spring)

**DRAM 2300 Theatre Workshop I (3 units).** Practical experience in all phases of theatrical production except acting and stage management. Opportunity for experience in scene building and painting, costume construction, publicity and box office. May be repeated for credit each semester. (Fall, Spring)

**DRAM 2950 Selected Topics in Drama (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected topic in drama. Topics may vary each term and are frequently selected to complement current dramatic productions. Different topics may be taken for credit. (Fall, Spring)

### *Upper Division*

**DRAM 3020 Children's Theatre (3 units).** A study of special problems and techniques in the production of formal drama for children; and a consideration of techniques, methods, and materials for use in improvised theatre. (Spring)

**DRAM 3200 Stagecraft I (3 units).** Principles and techniques of building, painting, mounting, and rigging stage scenery; theory and practice in stage lighting. Individual project work will be included. (Fall)

**DRAM 3210 Makeup (3 units).** The practical application of makeup for the stage. Included will be work on modeling in line and color, age makeup, and the creation of masks. (Spring)

**DRAM 3240 Costuming (3 units).** The study and practical application of creating costumes for the theatre. Included will be the study of fabrics, pattern making, and construction. Lab hours are required. (Fall)

**DRAM 3250 Stagecraft II (3 units).** A continuation of the principles and practice in the techniques of designing, building, painting, mounting, and rigging stage scenery and properties. Practice in stage lighting. Individual project work will be included. May be repeated once for credit with consent of instructor. Prerequisites: DRAM 3200 and consent of instructor. (Spring)

**DRAM 3510 Classical Theatre (3 units).** History of European theatrical production and performance, including selected plays from classical Greece through the eighteenth century. (1994–95)

**DRAM 3520 Romantic and Modern Theatre (3 units).** History of European and American theatrical production and performance, including selected plays from the nineteenth century to World War II. (Spring)

**DRAM 3530 Contemporary Theatre (3 units).** History of European and American theatrical production and performance, including selected plays since World War II. Satisfies upper division writing proficiency requirement. (Fall)

**DRAM 4020 Performance for Children (4 units).** Preparation and performance of one or more works for the general public. Students will work on all aspects of theatrical production in a manner closely resembling the operation of a repertory theatre company for children. May be repeated for credit. Prerequisite: Consent of instructor obtained by means of audition or interview. (Winter)

**DRAM 4350 Rehearsal and Performance (3 units).** Practical experience in acting, stage management, and crew supervision for public performances. May be repeated for credit each semester. Prerequisite: Consent of instructor. (Fall, Spring)

**DRAM 4510 Intermediate Acting (3 units).** Styles in acting. Intensified scene work from the plays of Shakespeare and Molière progressing to modern realistic and non-realistic drama and comedy. May be repeated for credit; however, only three units will count toward the major. Prerequisite: DRAM 1500 or consent of instructor. (Spring)

**DRAM 4520 Advanced Acting (3 units).** Advanced scene study with emphasis on technique and performance. Scene work taken from modern, naturalistic playwrights; Chekhov to Tennessee Williams. May be repeated for credit; however, only three units will count toward the major. Prerequisite: DRAM 4510 or consent of instructor. (Fall)

**DRAM 4550 American Theatre (3 units).** The growth of distinctively American stories, characters, ideas, and institutions as captured in the artistic and commercial development of theatre and drama in the United States from 1750 to the present. Satisfies upper division writing proficiency requirement. (Fall, Spring)

**DRAM 4560 Theatre in the Schools (4 units).** Performance and critical appreciation of performance for high school students. Class will present an abridged version of a classic play in area high schools and will discuss the work and its performance with members of the audience afterwards. May be repeated for credit. Prerequisites: Consent of instructor and auditions required.

**DRAM 4600 Directing (3 units).** Examination of history, principles, and procedures of the theatrical director. Practical scene work in composition, movement, and tempo. Prerequisites: An upper-division acting class or consent of instructor. (Winter)

**DRAM 4910 Cooperative Education (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 6 units. Prerequisites: Sophomore standing and consent of departmental coordinator. (Fall, Winter, Spring)

**DRAM 4950 Selected Topics in Drama (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected topic in drama. Topics may vary each term and are frequently selected to complement current dramatic productions. Different topics may be taken for credit. (Fall, Spring)

**DRAM 4960 Senior Seminar (4 units).** Senior Drama majors, with the approval of the Drama Faculty, will select and successfully complete an appropriate project in one of the following areas: Acting/Directing, Design/Technical Theatre, History/Criticism; or the student shall pass a comprehensive examination in theatre. (Formerly 4610). Prerequisite: Standing as a senior drama major and consent of major adviser. (Spring)

**DRAM 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)

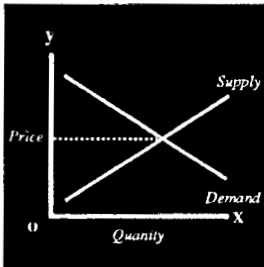
### **Postbaccalaureate**

**DRAM 5940 Advanced Production (2–6 units).** Advanced production work in drama for qualified postbaccalaureate students. Prerequisite: Consent of instructor. (Fall, Spring)

**DRAM 5950 Selected Topics in Drama (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected topic in drama. Topics may vary each term and are frequently selected to complement current dramatic productions. Different topics may be taken for credit. Prerequisite: Consent of instructor. (Fall, Spring)

**DRAM 5980 Individual Study (1–4 units).** For postbaccalaureate students capable of independent work and in need of advanced specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)





## Economics

**Office:** Classroom Building 101, (209) 667-3181  
**Chair:** H. Dieter Renning  
**Faculty:** William D. Crist, Edward C. Erickson,  
 Frederick E. Kotke (Emeritus), Albert Yin-  
 Po Lee, H. Dieter Renning, Everett E. White

The Department of Economics offers the degree Bachelor of Arts, Economics. The objectives of the major in economics are: (1) to provide a concentration in economics as the central core of a liberal education; (2) to provide courses in advanced theories and principles of production, distribution, exchange, and consumption, thus enabling the major to enter graduate study at leading universities; (3) to provide an expanded pre-professional base for the student interested in business, better enabling the graduate to obtain vocational objectives in government, business, and/or industry; and (4) to provide undergraduate and graduate service courses for the Masters of Business Administration (MBA) program and the Masters of Public Administration (MPA) program.

### Bachelor of Arts, Economics

#### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (6 units):  
     ECON 2500 Principles of Economics I, 3 units  
     ECON 2510 Principles of Economics II, 3 units
3. Complete the major of not less than 28 upper-division units; of these no more than 8 units of CR-graded work may apply toward the major. Completion of a minor is not required.

#### The Major (28 units minimum)

1. Complete the following upper-division courses (16 units):  
     ECON 3205 Quantitative Analysis, 4 units  
     ECON 4000 Macroeconomic Theory, 3 units  
     ECON 4010 Economic Thought, 3 units  
     ECON 4200 Intermediate Theory (Microeconomics), 3 units  
     ECON 4960 Senior Seminar, 3 units
2. Select at least four additional courses chosen from two or more of the following areas of specialization. Area specialization exceptions can be made on approval of the department chair.
  - a. **Banking, Investment and Economics**  
     ECON 3150 National Income Analysis, 3 units  
     ECON 3320 Money and Banking, 3 units  
     ECON 3331 Financial Markets and Business Cycles, 3 units

- ECON 4300 Mathematical Economics, 3 units
- ECON 4331 Managerial Economics, 3 units
- ECON 4335 Free Enterprise Economics, 4 units
- ECON 4500 Economics of Investment, 4 units
- b. International Trade and Alternative Economic Systems**
  - ECON 4050 Comparative Economic Systems, 3 units
  - ECON 4401 Third World Economics, 3 units
  - ECON 4415 International Economics, 3 units
  - ECON 4420 The Economy of Russia, 3 units
  - ECON 4455 The U.S. and World Trade, 3 units
- c. Public Sector Economics**
  - ECON 4540 Public Finance and Fiscal Policy, 3 units
  - ECON 4600 Urban Economics, 3 units
- d. Labor Economics**
  - ECON 4100 Labor Economics, 3 units
  - ECON 4120 Collective Bargaining Simulation, 3 units
- e. Economic History**
  - ECON 3100 Economic History of the United States, 3 units

## The Minor

### Requirements (18 units)

Complete ECON 2500 & 2510, Principles of Economics I & II, 6 units, and 12 units of upper-division course work as approved by the minor adviser.

## Liberal Studies Concentration

### Requirements (20 units)

The liberal studies concentration in economics consists of 20 units, at least 15 of which must be upper-division units.

## Teaching Credential—Supplemental Authorization In Economics

### Requirements

For a supplemental authorization for credentialed teachers to teach economics, students must complete 20 units of lower- and/or upper-division courses *or* 10 units of upper-division course work only, with a grade of C or better. The following courses are recommended:

- ECON 2500 Principles of Economics I, 3 units
- ECON 2510 Principles of Economics II, 3 units
- ECON 3100 Economic History of the United States, 3 units
- ECON 3320 Money and Banking, 3 units
- ECON 4010 Economic Thought, 3 units
- ECON 4100 Labor Economics, 3 units
- ECON 4335 Free Enterprise Economics, 4 units
- ECON 4455 The U.S. and World Trade, 3 units

## Course Descriptions

### *Lower Division*

**ECON 2500 Principle of Economics I (3 units).** Macroeconomics: scope, method, economic resources, monetary system, income determination, economic stability–instability, public finance. (CAN ECON 2) (Fall, Spring)

**ECON 2510 Principles of Economics II (3 units).** Microeconomics: price system and market structures, public policy and income distribution. Fundamentals of international economics; international trade, principles and problems of economic growth and development; analysis of economic systems. Special problem areas in American economy: urban economics, environmental economics, agricultural economics. (CAN ECON 4) (Fall, Spring)

**ECON 2950 Selected Topics in Economics (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of economics. Topics may vary each term. Different topics may be taken for credit. (Fall, Spring)

### *Upper Division*

**ECON 3100 Economic History of the United States (3 units).** Analysis of American business organizations and economic growth from colonial period to present with emphasis on evolution and changes in the American system. (Fall)

**ECON 3150 National Income Analysis (3 units).** Analysis of macroeconomic conditions and adjustments in a free enterprise system. National income accounting and employment theory. Prerequisite: Economic Principles or consent of instructor. (Spring)

**ECON 3205 Quantitative Analysis (4 units).** A study of econometric techniques for measurement of economic relationships, analysis and forecasting of business situations, and testing of economic theories. A course in basic statistics is recommended but not required. Prerequisites: ECON 3200 and 3210. (Fall)

**ECON 3320 Money and Banking (3 units).** Money and the level of economic activity; supply and demand for money; competition among financial institutions; the Federal Reserve System and monetary policy. Prerequisite: Economic Principles or consent of instructor. (Spring)

**ECON 3331 Financial Markets Inflation & Business Cycles (3 units).** Examination of current economic and social issues covering current recession, inflation, financial market conditions, rational expectations, construction, real estate markets, long-term finance, and foreign exchange markets. Prerequisite: Economic Principles. (Fall)

**ECON 4000 Intermediate Theory (Macroeconomics) (3 units).** Macroanalysis; income levels, expenditures, prices, and employment; application to depression and inflation. Prerequisite: Economic Principles or consent of instructor. (Fall)

**ECON 4010 Economic Thought (3 units).** Survey and comparison of the ideas and doctrines of major schools of economic thought from the Middle Ages to the Twentieth Century, with emphasis on classical and Neoclassical economics. Marxism, Institutionalism, and Keynesian economics. (Fall)

**ECON 4050 Comparative Economic Systems (3 units).** Comparison of alternative economic systems. Market economics versus planned economies. Institutions and patterns of economic decision making. Resource allocation and income distribution under different forms of economic organization. Comparative economic performance. Prerequisite: Economic Principles or consent of instructor. (Spring)

**ECON 4100 Labor Economics (3 units).** A study of theories of wage determination, income distribution, manpower imbalance, and economic problems of minority groups. History and theory of the American labor movement and theories of collective bargaining. Prerequisite: Economic Principles or consent of instructor. (Spring)

**ECON 4120 Collective Bargaining Simulation (3 units).** Simulation of collective bargaining negotiations emphasizing: (1) interpersonal skills, (2) dilemmas of bargaining, (3) strategies of bargaining, (4) characteristics of the bargaining relationship, (5) physical components of bargaining, (6) social components of bargaining. (Winter)

**ECON 4200 Intermediate Theory (Microeconomics) (3 units).** Theory of consumer behavior and market demand; production costs, and the theory of the firm; theories of competition and monopoly; concentration and anti-trust policies; models of oligopoly and monopolistic competition; resource pricing and income distribution; elements of welfare economics. Prerequisite: Economic Principles or consent of instructor. (Spring)

**ECON 4300 Mathematical Economics (3 units).** Static analysis; comparative-static analysis; optimization problems, input-output analysis; linear programming and game theory. Prerequisite: Economic Principles or consent of instructor. (Spring)

**ECON 4331 Managerial Economics (3 units).** A study of application of economic theory and methodology to management and decision making in business enterprises with special reference to theory of demand, production and cost analysis, profit measurement and planning, market structure and pricing government regulation of business and capital budgeting. Prerequisite: Economic Principles or consent of instructor. (Fall)

**ECON 4335 Free Enterprise Economics (4 units).** An economic analysis of the capitalistic free enterprise economy; including the historical development of the capitalistic free enterprise system and its future. (Winter).

**ECON 4401 Third World Economics (3 units).** Analysis of economic problems of less developed Third World countries: agriculture, industrial development, capital investment, trade, income distribution, population growth and education, economic theories, and policy tools for economic growth and development. Prerequisite: Economic Principles or consent of instructor. (Fall).

**ECON 4415 International Economics (3 units).** A study of theories and issues of international trade, commercial policies, tariff and other trade restrictions, foreign investment and multinational corporations, foreign exchanges and balance of payment adjustment, international financial institutions and systems, and regional trade organizations. Prerequisite: Economic Principles or consent of instructor. (Spring).

**ECON 4420 *The Economy of Russia (3 units)*.** Development of institutions and operating principles of the Russian economy. Decision making hierarchy and organization of central planning during the Soviet era. Plan construction and implementation. Economic structure and performance. Russia's economic relations with the outside world. (Spring).

**ECON 4455 *The U.S. and World Trade (3 units)*.** Dynamic change of comparative advantages of American business enterprises in world markets and recent U.S. trade policy developments affecting industries facing intense international competition, such as automobiles, steel, textile, footwear, semiconductors, and agricultural exports. Prerequisite: Economic Principles or consent of instructor. (Winter)

**ECON 4460 *The European Community: Progress and Prospects (4 units)*.** Analysis of the economic integration of Europe, intracommunity economic and social policies, the European monetary system, and the community's relations with the rest of the world.

**ECON 4500 *Economics of Investment (4 units)*.** Economic aspects of investment decisions and financial planning as faced by individuals in personal finance decisions and total investment for the economy. Prerequisite: Economic Principles recommended. (Winter).

**ECON 4540 *Public Finance and Fiscal Policy (3 units)*.** Principles, problems, and policies of federal taxation, expenditures, debt, budgeting, and fiscal policy. Prerequisite: Economic Principles or consent of instructor. (Spring).

**ECON 4600 *Urban Economics (3 units)*.** An analysis of the economic interdependency of markets in urban areas and possibilities for alternative resource use; land utilization patterns, urban transportation, labor markets, housing and public service markets. Prerequisite: Economic Principles or consent of instructor. (Spring)

**ECON 4910 *Cooperative Education (2-4 units)*.** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 6 units. Prerequisites: Sophomore standing; consent of departmental coordinator and Cooperative Education Office. (Fall, Winter, Spring)

**ECON 4950 *Selected Topics in Economics (Topics to be specified in Class Schedule) (1-5 units)*.** Development of a selected topic in economics. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Junior standing or consent of instructor. (Fall, Spring)

**ECON 4960 *Senior Seminar (3 units)*.** Reading and discussion in significant areas of economics; analysis of major contemporary economic problems, national and international. Prerequisite: Senior standing in economics. (Spring)

**ECON 4980 *Individual Study (1-4 units)*.** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)

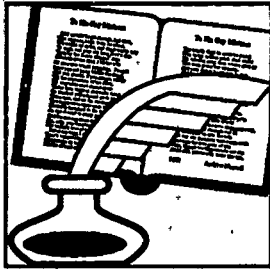
### ***Postbaccalaureate***

***ECON 5050 Business and the Economic Environment (3 units)***. Analysis of contemporary macro- and microeconomic problems and issues, related governmental policies, and their impact on the business firm. Including (but not limited to) unemployment, inflation, fiscal and monetary policy; government regulation of business; business concentration and anti-trust policy; income distribution; international economic relations. Prerequisite: MBA or MA candidacy. (Fall)

***ECON 5980 Individual Study (1-4 units)***. For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)

***ECON 5990 Thesis (1-6 units)***. Thesis research. May be repeated for a total of 6 units. Prerequisite: Consent of instructor and approval of graduate adviser.

***ECON 6000-Seminar in Economics for High School Teachers (3 units)***. Designed for high school economics teachers. Review of micro- and macroeconomic concepts and principles, with emphasis on their importance for analyzing current economic and social issues and related public policies. Format: Individual presentations of economic topics and teaching approaches by seminar participants, class discussions, demonstrations of audio/visual materials. Prerequisite: Postbaccalaureate standing or consent of instructor. (Spring)



## English

**Office:** Library Building 195, (209) 667-3361  
**Chair:** George E. Settera  
**Faculty:** Lawrence D. Berkoben, Harriett Blodgett, Anna L. Bolling, John E. Carroll, James P. Jensen (Emeritus), Lola V. Johnson, Ann Krabach, Susan Marshall, William H. Phillips, Paul P. Reuben, George Settera, Jr., Steven Stryker, Douglas H. Taylor, Mark Thompson, Jack W. Williams

The Department of English offers the degrees Bachelor of Arts, English; Master of Arts, English; Liberal Studies degree concentrations in English and Teaching English to Speakers of Other Languages (TESOL); a degree minor in English and a certificate program in TESOL. Courses are offered in composition, literature, creative writing, film, and humanities.

Many career options are open to students of English, including teaching, journalism, publishing, advertising, and writing. Students also find that studying English provides excellent preparation for postgraduate study and for careers in the medical and legal professions, government, business, and industry.

The various programs of the department are designed to provide students with the skills essential for fluent and mature expression in their chosen subject fields. Courses in literature and film use critical and instructional approaches to familiarize students with important literary works and forms. Students are encouraged to develop informed and independent critical evaluations through studying both basic requirements and a wide range of elective courses.

### Bachelor of Arts, English

#### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the prerequisite to the major (6 units):
  - a. Select one course in British literature:  
 ENGL 2100 British Literature to 1800, 3 units, *or*  
 ENGL 2110 British Literature after 1800, 3 units
  - b. Select one course in American literature:  
 ENGL 2200 American Literature to 1865, 3 units, *or*  
 ENGL 2210 American Literature after 1865, 3 units
3. Complete the major of not less than 30 upper-division units; of these, no more than 10 units of CR-graded course work in courses graded exclusively CR/NC may apply toward the major.
4. Consult with the major adviser concerning requirements, changes in curriculum, waivers, etc.

## The Major (30 units)

1. Complete the following required courses in literature (9 units):
  - ENGL 3100 Critical Approaches to Literature, 3 units
  - ENGL 4300 Shakespeare, 3 units
  - ENGL 4900 Senior Seminar, 3 units
2. Select one of the following courses in British literature (3 units):
  - ENGL 3209 Medieval Literature, 3 units
  - ENGL 3210 English Renaissance Literature, 3 units
  - ENGL 3215 Seventeenth Century English Literature, 3 units
  - ENGL 3220 Eighteenth Century English Literature, 3 units
  - ENGL 3225 English Romantic Literature, 3 units
  - ENGL 3230 English Victorian Literature, 3 units
  - ENGL 3235 Modern British Literature, 3 units
  - ENGL 4105 English Novel I, 3 units
  - ENGL 4106 English Novel II, 3 units
  - ENGL 4950 Special Studies in English Literature, 3 units
3. Select one of the following courses in American literature (3 units):
  - ENGL 4107 American Novel I, 3 units
  - ENGL 4108 American Novel II, 3 units
  - ENGL 4110 American Short Story, 3 units
  - ENGL 4120 American Poetry, 3 units
  - ENGL 4140 American Drama, 3 units
  - ENGL 4930 Special Studies in American Literature, 3 units
4. Select 15 units of upper division English electives in consultation with the major adviser (15 units).

*Note: Prospective postgraduate students in English are encouraged to undertake the study of some foreign language while still undergraduates. These students should also consult their English adviser concerning what courses in English will best prepare them for graduate study.*

## TESOL Concentration within the English Major

### Requirements

Students wishing to have a specific concentration in teaching English to speakers of other languages (TESOL) may do so by completing all requirements for the major to include the following specific courses:

- ENGL 3800 Introduction to Linguistics, 3 units
- ENGL 4615 TESOL Methods, 3 units
- ENGL 4800 Second Language Acquisition, 3 units
- ENGL 4850 English Grammar, 3 units

*Note: It is also recommended that students electing this concentration consider taking at least two semesters of a foreign language and SPCH 3010.*



## Degree Minor

### Requirements (18 units)

Complete 18 units to include at least 12 upper-division units. No more than six units of CR-graded course work in courses graded exclusively CR/NC may apply toward the minor.

1. Complete one course in each of the following categories (6 units):
  - a. ENGL 2100 British Literature to 1800, 3 units, *or*  
ENGL 2110 British Literature after 1800
  - b. ENGL 2200 American Literature to 1865, *or*  
ENGL 2210 American Literature after 1865.
2. Select a minimum of 12 upper-division units in consultation with the minor adviser (12 units).

*Note:* ENGL 3100 *Critical Approaches to Literature* is a prerequisite to most upper division literature courses.

## Liberal Studies Concentration

### Requirements (18 units)

1. Select one of the following courses (3 units):  
ENGL 2100 British Literature to 1800, 3 units, *or*  
ENGL 2110 British Literature after 1800, 3 units
2. Select one of the following courses (3 units):  
ENGL 2200 American Literature to 1865, 3 units, *or*  
ENGL 2210 American Literature after 1865, 3 units
3. Complete the following upper division courses, (6 units):  
ENGL 3009 Applied Writing, 3 units  
ENGL 4620 Children's Literature, 3 units
4. Select 6 units of upper division English upon advisement.

*Note:* For a student preparing to take the multiple subject credential, the following courses would be particularly appropriate for the concentration:

- |                |  |
|----------------|--|
| ENGL 3010      | Creative Writing Workshop, 3 units         |
| ENGL 3500-3520 | Studies in Film, 3-4 units                 |
| ENGL 3800      | Introduction to Linguistics, 3 units       |
| ENGL 3920      | Masterpieces of World Literature, 3 units  |
| ENGL 3930      | World Literature in Translation, 2-5 units |
| ENGL 4300      | Shakespeare, 3 units                       |
| ENGL 4600      | Tutorial Projects in English, 3 units      |
| ENGL 4615      | TESOL Methods, 3 units                     |
| ENGL 4620      | Children's Literature, 3 units             |
| ENGL 4630      | Adolescent Literature, 3 units             |
| ENGL 4850      | English Grammar, 3 units                   |

## Liberal Studies Concentration in Teaching English to Speakers of Other Languages (TESOL)

### Requirements (21 units)

1. Demonstrate evidence of second or non-primary language preparation, 3 units
2. Complete the following courses (18 units)
  - ENGL 3800 Introduction to Linguistics, 3 units
  - ENGL 4615 TESOL Methods, 3 units
  - ENGL 4800 Second Language Acquisition, 3 units
  - ENGL 4850 English Grammar, 3 units
  - SPCH 3010 Language and Speech Development, 3 units
  - EDBL 4200 Teaching the Culturally Different, 3 units

## Certificate Program in TESOL

The certificate in TESOL is intended for in-service teachers and undergraduates who are not majoring in either English or Liberal Studies, although students in those programs are not excluded from the certificate program. It is designed to prepare the participant to teach English to speakers of other languages, but is not a credential. Individuals planning to teach in California public schools should contact the School of Education for information concerning credential requirements. Fluency in English, both written and spoken, is required, and non-native speakers of English will have to demonstrate such fluency before the certificate will be awarded.

### Requirements (18–22 units)

1. Complete one semester of foreign language (or equivalent), 0–4 units
2. Complete the following courses (18 units)
  - EDBL 4200 Teaching the Culturally Different, 3 units
  - ENGL 3800 Introduction to Linguistics, 3 units
  - ENGL 4615 TESOL Methods, 3 units
  - ENGL 4800 Second Language Acquisition, 3 units
  - ENGL 4850 English Grammar, 3 units
  - SPCH 3010 Language and Speech Development, 3 units

## Teaching Credentials

### Single-Subject Credential Waiver Program

Those applying for admission to the single subject credential program at CSU Stanislaus and interested in obtaining the required certification of subject matter competency in English should obtain the description of requirements for certification currently available in the Department of English.

## Master of Arts Degree

Applications for admission to the Master of Arts program in English should be filed in the Office of Graduate Studies, which will then forward them to the Department of English for processing.

There are three main concentrations of study leading to the Master of Arts degree in English: (1) a concentration in the literature of Britain and the United States (MA-LIT); (2) a concentration in teaching of writing (MA-TW); and (3) a concentration in teaching English to speakers of other languages (MA-TESOL).

### **Prerequisites for Admission**

1. For the MA-LIT and MA-TW programs, a Bachelor of Arts degree with a major in English.
2. An undergraduate GPA of 3.0 in courses in the major.
3. Two letters of recommendation from former college instructors who can comment on the applicant's ability to succeed in graduate studies.
4. A 5–10 page critical or analytical paper written in an undergraduate class.

### **General Requirements for the Master's Degree**

1. Complete at least 30 graduate units.
2. Earn at least a grade of B in *each* course.
3. Demonstrate at least a reading knowledge of an appropriate foreign language.
4. Submit GRE scores. Candidates must achieve a minimum score of 500 on the GRE Verbal Test.
5. Students in the MA-LIT or MA-TW programs must achieve a minimum score of 510 on the GRE Literature in English subtest.

### **The Literature Program**

In addition to the requirements listed above, students electing the literature program must complete at least 16 units of course work in literature courses (seminars, independent studies, and special studies courses) numbered ENGL 5000 through ENGL 5999. A maximum of six units of approved postbaccalaureate undergraduate courses may be applied to Master of Arts requirements.

Students electing to write a thesis may take a maximum of three units of ENGL 5990 Thesis, to meet Master of Arts course work requirements. Students electing the non-thesis option must submit one revised graduate seminar paper and take ENGL 5965 Advanced Seminar Project, 2 units.

Students who plan to teach at the college or university level are strongly advised to take ENGL 5001 History and Research Methods in Composition/Rhetoric.

### **The Program with a Concentration in the Teaching of Writing**

The student who elects to pursue the Concentration in the Teaching of Writing will develop a specialist's knowledge of the principles of writing. The concentration should help the student teach and evaluate writing skills more effectively. This concentration consists of the following required courses:

1. ENGL 5001 Graduate Studies: History and Research Methods in Composition/Rhetoric, 3 units
2. ENGL 5010 Seminar: Composition/Rhetoric, 3 units
3. ENGL 5850 Linguistics for Teachers, 3 units
4. ENGL 5870 Practicum: Writing and Teaching of Composition, 3 units
5. ENGL 5960 Advanced Projects in English, 4 units

In addition to the three units listed under "I" of the requirements section and the 15 units in the concentration, students taking the Concentration in the Teaching of Writing must complete at least 12 units of course work in literature in 5000-level seminars, individual study courses (maximum 6 units), or approved upper-division undergraduate courses.

## The Program with a Concentration in Teaching English to Speakers of Other Languages (TESOL)

The student who elects to pursue the concentration in TESOL will develop a specialist's knowledge of English grammar, second language acquisition theory, methodology, curriculum and materials development, and crosscultural issues related to the teaching of English as a Second Language (ESL) and English as a Foreign Language (EFL). This concentration is particularly appropriate for those who want to teach in post-secondary settings such as community colleges, universities, adult education programs, and English language institutes in the U.S. and abroad.

### Admission to the Concentration in TESOL

Applicants with an undergraduate major in English should have course work in both literature and language studies. Applicants without an undergraduate major in English may be admitted conditionally but must complete the following:

1. ENGL 2210 American Literature after 1865, or its equivalent;
2. ENGL 3920 Masterpieces of World Literature, or its equivalent; *and*
3. ENGL 3009 Applied Writing, or its equivalent.

Students for whom English is a second language will have to demonstrate fluency in English before the M.A. will be awarded. Written fluency will be assessed as a regular part of the course work in the program. Spoken fluency will be assessed by the Foreign Service Oral Proficiency test. The oral proficiency assessment must occur during the first semester of study to allow for any needed language instruction before the end of the student's program.

This concentration consists of the following required and elective courses.

### Requirements

1. Complete the following prerequisites (6 units)
  - ENGL 3800 Introduction to Linguistics, 3 units
  - SPCH 3010 Speech and Language Development, 3 units
2. Complete the following courses (12-13 units)
  - ENGL 5001 Research Methods: Composition/Rhetoric, 3 units
  - ENGL 5850 Linguistics for Teachers, 3 units
  - ENGL 5870 Practicum: Writing and Teaching Composition, 3 units, *or*
  - ENGL 5940 Internship in English, 2 units, *or*
  - EDML 5940 Fieldwork: Multicultural Education, 3 units
  - ENGL 5960 Advanced Projects, 4 units
3. Select elective courses from the following four categories (18 units)
  - a. ESL Theory (6 units)
    - ENGL 4615 TESOL Methods, 3 units
    - ENGL 5983 ESL Theory, 3 units
    - EDML 5000 Multilingual Education in the Content Areas, 3 units
    - EDML 5001 Multilingual Education Evaluation, 3 units
  - b. Pedagogical Grammar (6 units)
    - ENGL 4600 Tutorial Projects in English, 3 units
    - ENGL 4800 Second Language Acquisition, 3 units
    - ENGL 4850 English Grammar, 3 units
    - ENGL 5983 Advanced Studies in Grammar or Syntax, 3 units

c. Related courses—Psychological/Social Sciences (3 units)

Related courses (with written approval of adviser) including anthropology, geography, education, ethnic studies, history, international relations, and psychology.

d. Related courses—Humanities (3 units)

Related courses (with written approval of adviser) including communication theory, composition theory, creative writing, foreign language, and literature.

## Writing Competency

Faculty from English provide instruction in the following courses designed to meet the University's writing competency requirement:

ENGL 1001 Freshman Composition, 3 units

ENGL 2000 Critical Inquiry, 3 units

## The Upper Division Writing Proficiency

Students graduating from CSU Stanislaus must demonstrate writing competency through satisfactory completion of a Writing Proficiency course (WP) in any discipline. Passing the Writing Proficiency Screening Test (WPST) is one of the prerequisites for these courses.

English courses satisfying this writing requirement are as follows:

ENGL 3007 Business and Technical Communication (WP), 3 units (through Spring 1994)

ENGL 3009 Applied Writing (WP), 3 units

ENGL 3100 Critical Approaches to Literature (WP), 3 units

ENGL 4600 Tutorial Projects in English (WP), 3 units

## English as a Second Language (ESL)

The Department of English offers courses for students who speak English as a second or foreign language. The courses are designed for students who can write English at a high-intermediate to advanced fluency level. The courses are designed to improve the writing and study skills of resident ESL students or newly-arrived international students. Students in the courses normally are regularly enrolled students in the University.

## Course Descriptions

**ESL 1000 Beginning English and Grammar for ESL Students (4 units).** The focus of this course is reading-based grammar. Students study grammar in the context of a reading, starting at the phrasal level. The course also offers instruction in reading strategies to improve comprehension and speed. The composition work that students do is at the paragraph and short essay level. Individualized tutoring in grammar and writing is an integral part of this course (at least one hour per week). (Fall)

**ESL 1005 Intermediate English and Grammar for ESL Students (4 units).** The focus of this course is the composition process: prewriting, drafting, revision, and editing. Students begin with personal writing and progress to academic essay work. The grammar work is individualized and is based on an inventory of problems from a "grammar journal." Students are also introduced to basic study skills like note-taking and test taking. Individualized tutoring in grammar and writing is an integral part of this course (at least one hour per week). (Spring)

***ESL 2000 English Grammar and Composition for Foreign Students (3 units).*** The course content roughly parallels that of ENGL 1001. Students read and study short essays, do vocabulary work, and write short essays. Students are introduced to the library and some research skills such as summarizing and paraphrasing. The course culminates with a short, documented essay. Tutoring is available for students with special needs. (Fall)

## **Course Descriptions**

### ***Prebaccalaureate***

***ENGL 0100 ILE English I (3 units).*** Instruction and intensive practice in basic skills designed to increase fluency in reading and writing. Emphasis on improving sentence structure, vocabulary, usage, reading comprehension, essay organization and development. Instruction is based on reading, writing, and the development of ideas through use of examples. Credit qualifies student for ENGL 0101. Prerequisites: First-term Freshman standing and an EPT total score of T141 or below. (Fall)

***ENGL 0101 ILE English II (3 units).*** Reinforcement of skills practiced in ENGL 0100 in addition to experience in analytical, organizational, and comprehension skills needed for reading and writing exposition. Satisfactory completion qualifies student for ENGL 1001. May be challenged by qualified students. Prerequisite: ENGL 0100 (Spring)

***ENGL 0111 Writer's Workshop (3 units).*** A course emphasizing the development of individual student's writing abilities, with intensive practice in basic skills, including grammar, usage, and other processes of composition. Satisfactory completion of this course will allow a student to enroll in ENGL 1001. Prerequisites: Freshman standing and EPT score of T142–T148. (Fall, Spring)

### ***Lower Division***

***ENGL 1001 Freshman Composition (3 units).*** A course in reading and writing expository essays. In addition to writing essays, students will be expected to demonstrate the ability to write informative summaries of university-level writing. Prerequisite: EPT score of T151 or above or ENGL 0111, 0101, or equivalent. (Fall, Spring)

***ENGL 1010 Introduction to Literature (3 units).*** Introduction to fiction, poetry, and drama. (Fall, Spring)

***ENGL 2000 Critical Inquiry (3 units).*** The focus of this course is critical thinking, with emphasis split between receptive (reading/listening) and active (writing) exercises. Students will be expected to analyze arguments of others and to produce defensible arguments of their own, both in analytical summaries and in original argumentative essays. The course will emphasize the difference between good and bad arguments, as well as the distinction between significant and trivial positions on issues. Prerequisite: Sophomore standing and ENGL 1001 or equivalent. (Fall, Spring)

***ENGL 2100 British Literature to 1800 (3 units).*** A survey of British literature to 1800 with attention to the historical development of literature from the Beowulf poet through the ages of Chaucer, the Renaissance poets and dramatists, to the neo-classical period. Prerequisite: ENGL 1001 or equivalent. (Fall)

**ENGL 2110 British Literature after 1800 (3 units).** A survey of British literature after 1800 with attention to the historical development of literature from the Romantic writers through the Victorian and modern periods to recent literature written in Britain. Prerequisite: ENGL 1001 or equivalent. (Spring)

**ENGL 2200 American Literature to 1865 (3 units).** A survey of American literature to 1865 with attention to the historical development of literature from the Puritans through the early republic and the period of the early romantics to the literature of the American Renaissance. Prerequisite: ENGL 1001 or equivalent. (Fall)

**ENGL 2210 American Literature after 1865 (3 units).** A survey of American literature after 1865 with attention to the historical development of literature from the post-Civil War regional and realist movements through naturalism and early 20th century writers to contemporary American literary expression in fiction, poetry, and drama. Prerequisite: ENGL 1001 or equivalent (Spring)

### **Upper Division**

**ENGL 3007 Business and Technical Communication (3 units).** An examination of the processes involved in writing for the professions, with emphasis on the business world. Attention will be paid to the writing of reports and proposals, the representation of research, and the principles of technical illustration. Satisfies upper division writing proficiency requirement. Prerequisite: Junior standing; and ENGL 1001 and 2000 or equivalents. (Fall, Spring)

**ENGL 3008 Writing with a Computer (4 units).** This course will provide students instruction in writing, revising, and printing a variety of practical and professional works by using a word processing program, computer, and printer. Works to be written include a summary, letter of application and résumé, essay explaining a process, and a report with graphic aids. No prior experience with a computer is required. Prerequisite: Junior standing; and ENGL 1001 and 2000 or equivalents.

**ENGL 3009 Applied Writing (3 Units).** A course designed for prospective and in-service teachers; deals with skills needed for good writing and the ways these skills are developed; emphasis on essay structure and development, conventional usage, and principles of essay evaluation. Satisfies upper division writing proficiency requirement. Prerequisite: Open only to Liberal Studies and English majors; and ENGL 1001 and 2000 or equivalents. (Fall, Spring)

**ENGL 3010 Creative Writing Workshop (3 units).** Methods and techniques of various types of creative writing. Typical studies include two or more of the following: short fiction writing, poetry writing, drama writing, film script writing. May be taken three times for credit. Prerequisite: ENGL 1001 or equivalent.

**ENGL 3100 Critical Approaches to Literature (3 units).** An examination of theories, approaches, techniques, and vocabulary in the study of literature. Meets the Graduation Writing Requirement for English majors. Satisfies upper division writing proficiency requirement. Prerequisites: ENGL 1001 or equivalent; ENGL 2100 or 2110; ENGL 2200 or 2210 or equivalents. (Fall, Spring)

**ENGL 3209 Medieval Literature (3 units).** The literature of the Middle Ages exclusive of Chaucer. Typical studies include Piers Plowman, Sir Gawain and the Green Knight, The Pearl, the Arthurian romances, and/or the ballad. Prerequisite: ENGL 3100.

**ENGL 3210 English Renaissance Literature (3 units).** Literature of the period from about 1500 to 1603. Typical studies include drama, lyric poetry, dramatic poetry, and such authors as Sidney, Spenser, Wyatt, Surrey, and Elizabethan dramatists other than Shakespeare. Prerequisite: ENGL 3100.

**ENGL 3215 Seventeenth Century English Literature (3 units).** Literature of the period from about 1603 to 1660. Typical studies include works of Donne, Jonson, Marvell, Herbert, and/or others. Prerequisite: ENGL 3100.

**ENGL 3220 Eighteenth Century English Literature (3 units).** Literature of the period from 1660 to about 1780. Typical studies include examples of Restoration drama and works of Dryden, Pope, Swift, Johnson, Boswell, and/or others. Prerequisite: ENGL 3100.

**ENGL 3225 English Romantic Literature (3 units).** Literature of the late eighteenth and early nineteenth centuries. Typical studies include works of Blake, Wordsworth, Coleridge, Byron, Keats, Shelley, and/or others. Prerequisite: ENGL 3100.

**ENGL 3230 English Victorian Literature (3 units).** Literature of the period from 1832 to 1900. Typical studies include the works of Tennyson, Browning, Arnold, Carlyle, and/or others. Prerequisite: ENGL 3100.

**ENGL 3235 Modern British Literature (3 units).** Literature of the late nineteenth and twentieth centuries. Typical studies include works by Hardy, Yeats, Joyce, Lawrence, Forster, Eliot, and/or others. Prerequisite: ENGL 3100.

**ENGL 3500-3520 Studies in Film (3-4 units).** Examinations of film as a verbal and visual medium and as a reflector of history and culture. Typical courses include Introduction to Film, Contemporary Films, American Films, Foreign Films, and Film and Literature. These courses have no prerequisites and are designed for students in all majors.

**ENGL 3800 Introduction to Linguistics (3 units).** An introduction to the scientific study of language. Topics covered include dialect study, language acquisition, comparative linguistics, and modern theories of language. (Same as ANTH 3800) (Fall)

**ENGL 3920 Masterpieces of World Literature (3 units).** A survey of important literary works written by major writers in world literature. The course will include works by Homer, Sophocles, Dante, Shakespeare, at least one novel of the 19th or 20th century, and at least one drama or film of the 19th or 20th century. Prerequisite: Completion of lower-division area General Education C-2 requirement.

**ENGL 3930 World Literature in Translation (3-5 units).** Studies in various aspects of world literature in translation. Course content may vary from term to term. (Same as FREN, GERM, SPAN 3930)

**ENGL 4010 Advanced Creative Writing (3 units).** Primarily for experienced writers, the course includes writing practice, examination of the literary market, and participation in a public reading. Prerequisite: Consent of instructor.



**ENGL 4011. *Writing Scripts and Stories (4 units)*.** An introduction to the two genres of short fiction and scripts; practice in writing and revising stories and/or scripts. Prerequisite: ENGL 1001 or equivalent.

**ENGL 4019 *Editing Literary Magazines (2 units)*.** Topics will include the study of editorial policy, criteria, and processes. Included will be preparation for and the editing of a literary and art magazine. Prerequisites: ENGL 1001 or equivalent, and consent of instructor. Previous writing and literary courses desirable.

**ENGL 4020 *Literature of the Classical World (3 units)*.** A study of major works of literature of classical Greece and Rome, including the poems of Homer; plays by Aeschylus, Sophocles, Euripides, and Aristophanes; selected dialogues of Plato; Greek lyric poems; *The Aeneid* of Vergil; and the poems of Horace, Juvenal, and Catullus. Prerequisite: ENGL 3100.

**ENGL 4105 *English Novel I (3 units)*.** Authors to be studied may include Defoe, Richardson, Fielding, Sterne, Smollett, Austen. Prerequisite: ENGL 3100.

**ENGL 4106 *English Novel II (3 units)*.** Authors to be studied may include Dickens, Thackeray, Bronte, Eliot, Hardy, Conrad. Prerequisite: ENGL 3100.

**ENGL 4107 *American Novel I (3 units)*.** The American novel in the nineteenth century. Authors to be studied include Cooper, Hawthorne, Melville, Twain, Howells, James, Crane, and/or others. Prerequisite: ENGL 3100.

**ENGL 4108 *American Novel II (3 units)*.** The American novel in the twentieth century. Authors to be studied include Wharton, Cather, Hemingway, Fitzgerald, Faulkner, Steinbeck, and/or others. Prerequisite: ENGL 3100.

**ENGL 4109 *The Contemporary Novel (3 units)*.** The novel in English in the 1970s and 1980s including but not limited to works from Britain, Canada, and the United States. Authors to be studied include Anita Bookner, Margaret Atwood, Toni Morrison, Ann Tyler, Wallace Stegner, and/or others. Prerequisite: ENGL 3100.

**ENGL 4110 *American Short Story (3 units)*.** An intensive study of the short-story as a literary form with emphasis on the American short-story. Prerequisite: ENGL 3100.

**ENGL 4115 *20th Century English Novel (3 units)*.** The development of the English novel during the twentieth century with fluctuations between tradition and innovation. Typical readings include Bennett, Conrad, Joyce, Woolf, Forster, Bowen, Drabble. Non-repeatable. Prerequisite: ENGL 3010.

**ENGL 4120 *American Poetry (3 units)*.** Lyric, narrative, and/or dramatic poetry in American literature. Prerequisite: ENGL 3100.

**ENGL 4130 *Dramatic Literature I (3 units)*.** Analysis of drama as literary form: Classics of the Greek, Renaissance, and Restoration theaters. Prerequisite: ENGL 3100.

**ENGL 4135 *Dramatic Literature II (3 units)*.** Analysis of drama as a literary form. Includes examination of plays by such writers as: Ibsen, Strindberg, Chekhov, Shaw, Beckett, Brecht, Williams, Pinter, and/or others. Prerequisite: ENGL 3100.

**ENGL 4140 American Drama (3 units).** The American drama in the twentieth century. Authors to be studied include Eugene O'Neill, Tennessee Williams, Arthur Miller and/or others. Prerequisite: ENGL 3100.

**ENGL 4150 20th Century American Literature 1900-1950 (3 units).** American literature in the first half of the twentieth century. Authors to be studied include Robinson, Eliot, Cather, Hemingway, Langston Hughes, Countee Cullen, and/or others.

**ENGL 4300 Shakespeare (3 units).** Representative plays from among the comedies, tragedies, romances, and histories; may also include examples of nondramatic poetry. Prerequisite: ENGL 3100.

**ENGL 4305 Chaucer (3 units).** The works of Chaucer with emphasis on *The Canterbury Tales*. Prerequisite: ENGL 3100.

**ENGL 4310 Milton (3 units).** Representative poetry and prose of Milton, with emphasis on *Paradise Lost*. Prerequisite: ENGL 3100.

**ENGL 4510 Women Authors (3 units).** Readings in prose and poetry by women authors selected to highlight the tradition of female writings. Significant themes, techniques, circumstances, and authors from the 17th century to the 20th. May focus on either British or American writers.

**ENGL 4600 Tutorial Projects in English (3 units).** An inquiry into the techniques of teaching the reading and writing of the English language. Instruction in the problems involved in tutoring students in English. Satisfies upper division writing proficiency requirement. Prerequisite: Consent of instructor. May be repeated once for credit. (Fall, Spring)

**ENGL 4610 Curriculum and Instruction: English (3 units).** Contemporary trends and problems in English education with emphasis on language arts curriculum development, selection and organization of materials, and procedures for the secondary and junior high school. Field observations and contact with local teachers. Prerequisite: Consent of instructor.

**ENGL 4615 TESOL Methods (3 units).** A course for prospective teachers of English to speakers of other languages (TESOL), teachers of multicultural K-adult ESL classes, and teachers in bilingual education programs. Topics will include current approaches, methods, techniques and materials for various English as a second/foreign language settings.

**ENGL 4620 Children's Literature (3 units).** Introduction to children's literature: fiction, poetry, drama, fantasy, fairy tales, folklore, and ethnic materials. Analysis and investigation of the techniques of teaching literature to children.

**ENGL 4630 Adolescent Literature (3 units).** Study of representative works read by adolescents, including fiction, poetry, and drama.

**ENGL 4700 Interdepartmental Study (2-5 units).** Various interdepartmental topics. Course content may vary from term to term. Different topics may be taken for credit under this number. Prerequisite: Consent of instructor.

**ENGL 4800 Second Language Acquisition (3 units).** A course for prospective teachers of English to speakers of other languages. Topics will include: Comparison/contrast of first and second language acquisition (SLA), cognitive strategies in SLA, personality and SLA, sociocultural factors in SLA, discourse analysis, error analysis, and inter-language. Prerequisite: ENGL 3800, 4850, SPCH 3010 or 4021, or consent of instructor.

**ENGL 4850 English Grammar (3 units).** An extensive review of the principles of English grammar, designed particularly for teachers and prospective teachers of English; the changing notions of grammar: differences between colloquial and formal standard American English.

**ENGL 4910 Cooperative Education (2-4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisites: Sophomore standing and consent of departmental coordinator.

**ENGL 4930 Special Studies in American Literature (1-5 units).** Special studies in some area of American literature. Course content may vary from term to term. Typical courses include American Immigrant Literature, the American dream and American literature, The Literature of American Minorities, or California writers and the California scene. Different titles may be taken for credit under this number. Prerequisite: ENGL 3100.

**ENGL 4950 Special Studies in English Literature (1-5 units).** Special studies in some area of English literature. Course content may vary from term to term. Typical courses include women in nineteenth and twentieth century literature, realism in English literature, minor writers, London in English literature. Different titles may be taken for credit under this number. Prerequisite: ENGL 3100.

**ENGL 4980 Individual Study (1-4 units).** For students capable of independent work and in need of advanced or specialized study. May be repeated for a total of six units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)

**ENGL 4990 Senior Seminar (3 units).** Advanced study in English language and literature. Course content may vary from term to term. Typical seminars will focus on a problem of genre, period, a single author, or on some aspect of English language study. Prerequisites: Completion of 18 units of upper-division English and senior standing. (Fall, Spring)

## **Graduate**

**ENGL 5000 Graduate Studies: Critical Theory and Research (3 units).** Theory of literary criticism, beginning with Aristotle. Modern approaches and methods in the study of the uses of language and literature. Bibliographical resources and methods for graduate work in English. Prerequisite: Graduate standing. (Fall)

**ENGL 5001 Graduate Studies: History and Research Methods in Composition/Rhetoric (3 units).** This seminar will focus upon many of the theories of rhetoric which underlie contemporary classroom practices in the teaching of writing. The goal of the course is to familiarize students with some of the many issues in the field of composition by examining current theories, research, and pedagogy. Required for all students electing the teaching of writing concentration. Prerequisite: Graduate standing or consent of English Graduate Coordinator. (Fall)

**ENGL 5010 Seminar: Composition/Rhetoric (3 units).** The emphasis will usually be on rhetorical theories and research methods in composition studies. Students will be expected to develop a proposal for a project. Topic for this seminar may vary from semester to semester. Prerequisite: Graduate standing or consent of English Graduate Coordinator.

**ENGL 5100 Seminar: Medieval Literature (3 units).** This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 6 units. Prerequisite: Graduate standing or consent of English Graduate Coordinator.

**ENGL 5200 Seminar: The Renaissance (3 units).** This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 6 units. Prerequisite: Graduate standing or consent of English Graduate Coordinator.

**ENGL 5300 Seminar: The Enlightenment and 18th Century (3 units).** This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 6 units. Prerequisite: Graduate standing or consent of English Graduate Coordinator.

**ENGL 5400 Seminar: The Nineteenth Century (3 units).** This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 6 units. Prerequisite: Graduate standing or consent of English Graduate Coordinator.

**ENGL 5500 Seminar: The Twentieth Century (3 units).** This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 6 units. Prerequisite: Graduate standing or consent of English Graduate Coordinator.

**ENGL 5600 Seminar: American Literature (3 units).** This seminar will focus upon the works of one or more major authors. Since the particular authors to be studied will vary each time the seminar is offered, this course may be repeated for a total of 9 units. Prerequisite: Graduate standing or consent of English Graduate Coordinator.

**ENGL 5850 Linguistics for Teachers (3 units).** This course is designed to familiarize students with the variety of applications of linguistics to teaching composition. Topics covered will include Transformations and Style; What Do You Teach When You Teach Grammar?; What's Awkward About AWK?; The Relationship Between Reading and Writing, etc. Prerequisite: ENGL 3800 or 4850 or consent of instructor. (Spring)

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***ENGL 5870 Practicum: Writing and Teaching of Composition (3 units)***. Supervised observation and participation in existing university writing programs. Includes regular meetings with the student's assigned supervisor and master teacher. Prerequisite: Completion of or concurrent enrollment in ENGL 5850. (Spring)

***ENGL 5940 Internship in English (2 units)***. Supervised teaching in literature, composition, and creative writing at the college/university level. Prerequisite: Graduate standing, may be repeated once for credit.

***ENGL 5950 Selected Topics in English (Topics to be specified in Class Schedule) (1–5 units)***. Development of a selected topic in English. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

***ENGL 5960 Advanced Projects in English (1–4 units)***. Directed study in applied research. Students will refute, refine, or replicate existing research on a subject of relevance to composition or critical analysis. Findings will be presented in a colloquium. The project will usually take more than one term to complete. Prerequisite: ENGL 5001 or 5002 and consent of the Coordinator of the English Graduate Program.

***ENGL 5965 Advanced Seminar Project (2 units)***. This course is designed to assist graduate students in the literature program in developing and completing advanced seminar projects in critical analysis and practical applications required for the M.A. degree. Close faculty supervision will be provided.

***ENGL 5980 Individual Study (1–4 units)***. For qualified postbaccalaureate students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Spring)

***ENGL 5990 Thesis (3 units)***. (Fall, Spring)



# Environmental and Resource Studies

## Degree Minor

**Office:** Classroom Bldg 215, (209) 667-3127  
**Coordinator:** Melvin H. Aamodt (Geography)  
**Advisers:** Kenneth Entin, Lawrence L. Giventer,  
 Steven W. Hughes (Politics and Public  
 Administration); Michael J. Perona  
 (Chemistry); Walter Tordoff III, Daniel  
 F. Williams (Biological Sciences)

The minor in environmental and resource studies is an interdisciplinary degree program open to students in any major. It is intended for students who are concerned with environmental and resource issues and with the interactions of natural systems and social processes. The focus of the minor is on the complex problems of human-environment relationships.

Upper-division courses counted in the major may not be counted towards the minor. However, courses in the minor may be used to satisfy prerequisites to the major and general education requirements, if applicable. See "General Education Breadth Requirements" for current information.

### Requirements (25 units minimum)

Complete a minimum of 25 units, including at least eight upper-division units, as outlined below:

1. Complete the following required courses in natural and social sciences (10 units):
  - a. BOTY 1050 Introduction to Botany, 4 units, *or*  
 ZOOL 1050 Introduction to Zoology, 4 units
  - b. CHEM 1000 Chemistry in the Modern World, 3 units

*Note: Satisfactory completion of CIEM 1100 may be substituted for CHEM 1000.*

- c. GEOG 2010 Introduction to the Natural Environment, 3 units, *or*  
 ECON 2510 Principles of Economics II, 3 units
2. Complete one of the following courses (3–4 units):
  - GEOL 2100 Principles of Geology, 3 units
  - PHSC 1000 Solar Energy Today, 3 units
  - PHSC 1300 Environmental Pollution, 3 units
3. Complete a minimum of 12 units of elective courses in consultation with the minor adviser from the list below. At least six units must come from the natural sciences and six units from the social sciences or humanities.

*Note: Students are also advised to complete an introductory course in statistics.*

- a. **Natural Sciences (6 units minimum)**
  - BIOL 2400 Biology and the Sea, 2 units
  - BIOL 2650 Environmental Biology, 3 units
  - BIOL 3630 Ecology, 4 units

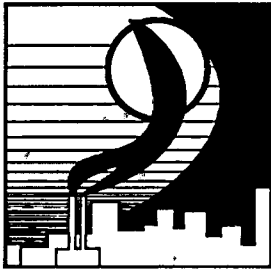
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- CHEM 3070 The Chemicals in Your Life, 3 units
- CHEM 3080 The Chemistry of Nuclear Energy, 3 units
- GEOG 3000 Physical and Environmental Geology, 4 units
- PHSC 3000 Energy, Ecology, and Environment, 3 units
- PHSC 3500 Solar and Other Alternative Energies, 3 units
- PHYS 3800 Fundamentals of Nuclear Energy, 3 units

**b. Social Sciences and Humanities (6 units minimum)**

- ANTH 3000 Anthropology and Modern Social Issues, 3 units
- GEOG 3020 Human Ecology, 3 units
- GEOG 4070 Agricultural Geography, 4 units
- GEOG 4350 Urban Geography, 4 units
- MDIS 4400 Politics of the Environment, 3 units
- PSCI 3300 Introduction to Public Administration, 3 units
- PSCI 4315 Public Policy Making, 3 units
- PSCI 4325 Land Use Planning, 3 units
- PSCI 4340 Political Demography, 3 units
- PSCI 4600 Statistical Analysis for Politics, 4 units
- SOCL 3430 Population, Resources, and the American Future, 3 units

*Note:* Appropriate Winter Term courses may be substituted in the elective category by prior advisement and approval of the minor adviser only. Courses not given prior approval may not be counted towards the minor. Also, upon approval of the minor adviser, one to three units of individual study or internship may be applied towards elective categories under 3.



# Environmental Sciences

## Concentration in

## Natural and Physical Sciences

Office: Science Building 103; (209) 667-3476

Coordinator: Walter Tordoff III

The concentration in environmental sciences acquaints students with environmental problems and research in the areas of biological sciences, chemistry, and physical sciences. Students will complete courses in each of these areas, participate in interdepartmental seminars, and become involved in the study of an environmentally related problem. Courses are required in each of the departments to help the student better understand the nature and diversity of the environment, as well as the broad scope of research and study necessary to deal effectively with environmental problems.

Each student must satisfy the graduation requirements of the University including the completion of a major in biological sciences, chemistry, geology, physical science, or physics. In addition, students must complete requirements for the environmental sciences concentration as outlined. Students majoring in physical science may combine the environmental science concentration requirements with major requirements to complete the physical science degree as outlined in the catalog.

### Requirements (55 units minimum)\*

1. Complete the following prerequisites to the Environmental Sciences Concentration or their equivalent when available (35 units):
  - a. BOTY 1050 Introduction to Botany, 4 units
  - b. ZOOL 1050 Introduction to Zoology, 4 units
  - c. CHEM 1100, 1110 Principles of Chemistry I, II, 10 units
  - d. MATH 1600 Statistics, 4 units, *or*  
MATH 4651 Modern Probability Theory, 4 units
  - e. CS 1000 Introduction to Computers, 3 units
  - f. PHYS 2100, 2110 Basic Physics I, II, 10 units, *or*  
PHYS 2250, 2260 General Physics I, II, 8 unit, and  
PHYS 2252, 2262 General Physics Lab I, II, 2 units
2. Complete the following course work for the Environmental Sciences Concentration (20–21 units):
  - a. BIOL 4680 Ecology, 4 units
  - b. CHEM 2010 Quantitative Analysis & Basic Instrumental Techniques, 4 units
  - c. MATH 1410 Calculus I, 4 units, *or*  
MATH 1910 Calculus with Applications I, 3 units
  - d. NSCI 4960 Seminar in Environmental Science, 1 unit (two semesters required), 2 units

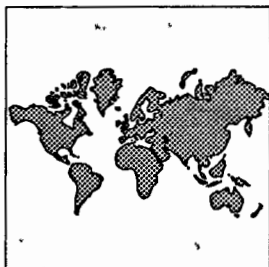
\*Most of these units will double-count in the major.



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- e. PHSC 3000 Energy, Ecology, & Environment, 3 units, *or*  
GEOL 3000 Physical and Environmental Geology, 4 units
- f. BIOL 4980 Individual Study, 4 units, *or*  
CHEM 4980 Individual Study, 4 units, *or*  
GEOL 4980 Individual Study, 4 units, *or*  
PHYS 4980 Individual Study, 4 units

**Note:** *This study must be on an environmentally related problem which has been selected in consultation with the adviser. Each student should include additional environmental courses in consultation with the adviser.*



## Ethnic Studies

### Degree Minor and Concentration within the Liberal Studies Major

**Office:** Classroom Building 240B, (209) 667-3341  
**Chair:** Richard L. Luevano  
**Faculty:** Richard L. Luevano, Delo E. Washington,  
 Sari Miller-Antonio

Ethnic Studies is a multidisciplinary program coordinating courses, activities, and projects to enhance the student's understanding of the roles, functions, and lifestyles of American ethnic minorities.

Students may take interdisciplinary courses offered through the ethnic studies program or courses offered by faculty from other academic disciplines. See the "Schedule of Classes" for course availability each semester. Students interested in ethnic studies as a field should consult the faculty members above regarding the "Special Major" option.

### Ethnic Studies Categories

The following is a list of the courses offered in Asian American Studies, Black Studies, and Chicano Studies designated according to the following categories:

#### *Category I*

An introduction to the study of the role, function, and lifestyles of American ethnic groups.

- ETHS 2000 Contemporary Black Studies, 3 units
- ETHS 2100 Contemporary Chicano Studies, 3 units
- ETHS 2200 Contemporary Asian American Studies, 3 units

#### *Category II*

A detailed study of the cultural development of ethnic groups in America.

- ANTH 3070 Peoples and Cultures of Africa, 3 units
- ANTH 3101 Cultures of Asia and the Pacific, 3 units
- ANTH 3301 The American Indian, 3 units
- ANTH 3320 Native Peoples of Latin America, 3 units
- ANTH 4130 Urban Subcultures: Chinatown, 1 unit

#### *Category III*

A detailed study of the historical background of minority groups in America.

- HIST 3510 Latin America in Colonial Times, 3 units
- HIST 3520 Latin American States Since Independence, 3 units
- HIST 3800 East Asia in Traditional Times, 3 units
- HIST 3810 East Asia in the Modern World, 3 units
- HIST 3860 Africa Before 1885, 3 units
- HIST 3880 Contemporary Africa, 1945 to the Present, 3 units
- HIST 4800 Modern China, 3 units
- HIST 4850 China and the United States, 3 units

### **Category IV**

A study of the psychological, sociological, economic, educational, and political adjustments necessary for members of each of the groups to function in American society.

- EDBL 4200 Teaching the Culturally Different, 3 units
- ETHS 3000 Mexican American Politics Since 1850, 3 units
- ETHS 4000 Mexican American Family, 3 units
- ETHS 4010 The Black American Family, 3 units
- ETHS 4020 The Black Woman: Soul Sister, 4 units

### **Category V**

A synthesis of knowledge gained in the preceding courses with some introduction of research methodology for the study of each ethnic group.

- ETHS 4200 The Minority Experience, 3 units
- ETHS 4350 Multiculturalism: From Bias to Reality, 3 units
- ETHS 4940 Field Work in Ethnic Studies, 4 units
- ETHS 4950 Selected Topics in Ethnic Studies, 1-5 units
- ETHS 4960 Seminar in Ethnic Studies, 3 units, *or*
- SSCI 4960 Social Science Interdisciplinary Seminar, 3 units
- ETHS 4980 Individual Study, 1-4 units

## **Minor in Ethnic Studies**

### **Requirements (18 units)**

Complete 18 units in the ethnic studies program as approved by the minor adviser, including at least 12 upper division units, distributed as follows:

1. *Category I*, to include two areas, 6 units
2. *Category II-V*, 6 units
3. *Category V*, 6 units

## **Minor in Chicano Studies**

### **Requirements (18 units)**

Complete 18 units in the ethnic studies program in Chicano Studies as approved by the minor adviser, including at least 12 upper division units, distributed as follows:

1. *Category I*, 3-6 units
2. *Category II or III*, 3 units
3. *Category V*, 6 units
4. *Category II-V*, 3-6 units

## **Minor in Black Studies**

### **Requirements (18 units)**

Complete 18 units in the ethnic studies program in Black Studies as approved by the minor adviser, including at least 12 upper division units, distributed as follows:

1. *Category I*, 3-6 units
2. *Category II or III*, 3 units
3. *Category V*, 6 units
4. *Category II-V*, 3-6 units

## Liberal Studies Concentration in Ethnic Studies Requirements (20 units)

Lower Division, 3 units (one course) selected from *Category I*

Upper Division, 17 units as approved by the major adviser to include:

6-11 units of course work from *Categories II-IV*

6-11 units of course work from *Category V*

### Course Descriptions

#### *Lower Division*

**ETHS 1100 Communication Skills and the Minority Student (3 units).** Sociolinguistic approach to academic problems peculiar to the minority student, emphasizing the structural differences between ordinary speech and the written "University Dialect," and focusing on academic modes of argument, tools and techniques of research and readings in the rich and varied modes of expression created by minorities.

**ETHS 1200 Higher Education and the Minority Student (3 units).** Social psychological approach to identifying individual and group characteristics of the minority student as a subculture on the college campus. Socio-economic background, parents' level of education, interests, attitudes, and values of the nontraditional student in postsecondary settings will be investigated. Reports on relevant research will be reviewed, assessed, and considered for application purposes.

**ETHS 2000 Contemporary Black Studies (3 units).** A survey of the Black experience, a look at the distinctive Black culture and customs, and an analysis of the various problems of economic, religious, political, psychological, and educational adjustment. Particular emphasis will be placed on problems encountered in the ghetto and white resistance to change in the urban and suburban communities. (Fall, Spring).

**ETHS 2100 Contemporary Chicano Studies (3 units).** A survey of the Chicano experience, a look at the distinctive Chicano culture and customs, and an analysis of the various problems of economic, religious, political, psychological, and educational adjustment. Particular emphasis will be placed on problems encountered in the barrio, the farm labor situation, and the educational complications of bilingualism. (Fall, Spring)

**ETHS 2200 Contemporary Asian American Studies (3 units).** A survey of the Asian American cultures and customs, and an analysis of the various problems of economic, religious, political, psychological, and educational adjustment. Particular emphasis will be placed on inter-ethnic identity, identity crisis, and contacts among Asian Americans.

**ETHS 2950 Selected Topics in Ethnic Studies (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected branch of ethnic studies. Topics vary each term, thus different topics may be taken for credit.

#### *Upper Division*

**ETHS 3000 Mexican American Politics Since 1850 (3 units).** A critical analysis of the Chicano's political participation in the United States since 1850. Special emphasis will be placed on the cultural factors as well as economic and social conditions that allowed or prevented their full political participation. Prerequisite: ETHS 2100.

***ETHS 4000 Mexican American Family (3 units)***. Basic sociological structure and functions of the family as a social institution. Application of role theory to the Chicano family as a unit of interacting personalities. Courtship, marriage, and child rearing practices, etc. The relationship of the Chicano family with other institutional factors of the society. Stress is placed on the changing sex roles for the Chicano family members. (Same as WMST 4000) Prerequisite: ETHS 2100. (Fall)

***ETHS 4010 The Black American Family (3 units)***. A social psychological approach to studying the Black family as a basic social unit. A variety of perspectives are used to describe and explain how family members function in terms of courtship, marriage, child rearing practices, etc. The family's relationship with other institutions in the wider society also is considered. (Same as WMST 4010) (Fall, Spring)

***ETHS 4020 The Black Woman: Soul Sister (4 units)***. A review of popular notions about the identity of the black woman in the U.S. Stereotypes will be contrasted with examples of her position, role, and status in past and present society. Explanations or systematic accounts regarding the black woman's behavior will be offered from a social psychological perspective. (Same as WMST 4020) (Winter)

***ETHS 4200 The Minority Experience (3 units)***. A study of the history, culture, and current problems of racial and ethnic minorities with emphasis on cultural clashes, curriculum development, and the psychology of each major group, i.e., Black, Chicano, Asian American, and Native American. (Fall, Spring)

***ETHS 4300 Chicano Student Organization (2 units)***. Study of the sociological and political development of Chicano student organizations in California higher educational systems with emphasis on the problems of social alienation, student politics, academic achievement, etc. Prerequisite: ETHS 2100.

***ETHS 4350 Multiculturalism: From Bias to Reality (3 units)***. An examination of progressive change from the conventional majoritarian bias to self-awareness, self-identity and self-esteem, i.e. the changing consciousness of systematically disadvantaged groups in the United States. Utilizing the theoretical framework of Anthony Wallace, the self-articulation of African-Americans, Chicanos, Latin-Americans, Asian-Americans and women are reviewed. Integrating concepts are used to identify the operative dynamic of exclusion and to articulate an ideal of multiculturalism and diversity. Prerequisite: Upper-division standing. (Same as WMST 4350)

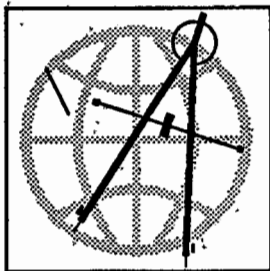
***ETHS 4910 Cooperative Education (2-4 units)***. This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. Up to 3 units may be counted as elective units toward the minors available in Ethnic Studies. Prerequisites: Normally, ETHS 2000 or 2100, and completion of ETHS 4000, 4010, or 4020 will serve as the minimum requirements for enrollment in ETHS 4910.

***ETHS 4940 Field Work in Ethnic Studies (4 units)***. Work in ethnic relations is arranged to be performed in a community, an institution, or an agency setting. Efforts will be made to bridge a gap between the intellectual pursuit of knowledge and its practical application in intergroup contacts. May be repeated for a total of 8 units. (Fall, Spring)

***ETHS 4950 Selected Topics in Ethnic Studies (Topics to be specified in Class Schedule) (1–5 units).*** Development of a selected branch of ethnic studies. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor. (Spring)

***ETHS 4960 Seminar in Ethnic Studies (3 units).*** A synthesis of existing knowledge from ethnic studies material; relating pertinent background information to special independent projects. Prerequisites: Course work in ethnic studies and consent of instructor.

***ETHS 4980 Individual Study (1–4 units).*** For students capable of independent work and in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.



## Geography

**Office:** Classroom Building 215, (209) 667-3127  
**Chair:** Melvin H. Aamodt  
**Faculty:** Melvin H. Aamodt, Ida I. Bowers, Thomas E. Durbin, Eric T. Karlstrom, Leon S. Pitman

The Department of Anthropology/Geography offers the degree Bachelor of Arts, Geography, as well as courses for a concentration in the Liberal Studies major. In addition, it is one of three fields of interest in the Social Sciences major. A minor in Geography is also available. Courses are open to all students interested in obtaining a better understanding of the world in which they live.

Geography is concerned with the interrelationships between the environmental characteristics of the earth and human perception and use of them. A major goal of the department is to provide students with meaningful knowledge of the world's peoples in their different physical settings.

The Department of Anthropology/Geography supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses offered at CSU International Programs study centers abroad are equivalent to courses in the department of Anthropology/Geography and may be used to fulfill requirements for degree options offered by the Department and/or certain general education requirements. Students should consult the International Programs Bulletin available at the circulation desk of the Library, a departmental adviser, and/or the campus International Programs Adviser for more information.

## Bachelor of Arts, Geography

### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (6 units):
  - a. GEOG 2010 Introduction to the Natural Environment, 3 units
  - b. Complete one of the following:
    - GEOG 2020 Introduction to Cultural Geography, 3 units
    - GEOG 2400 World Regional Geography, 3 units
    - GEOG 2420 Third World Regions, 3 units
3. Complete the major of not less than 36 upper-division units as approved by the major adviser. Four units of CR-graded course work in courses graded exclusively CR/NC may apply toward the major.
4. Completion of a minor is recommended but not required.

**Note:** Students are expected to take additional courses in supporting fields that relate to their career interests. See adviser for further information.

## The Major (36 units minimum)

1. Complete 36 units of course work as follows:

a. **Topical Human Geography (10 units minimum)**

i. GEOG 3010 Cultural Geography or its equivalent, 3 units

*Note: If Cultural Geography is taken at the lower-division level, GEOG 3020 (Human Ecology) should be taken to fulfill I.a.i.*

ii. Complete two of the following courses:

GEOG 3020 Human Ecology, 3 units

GEOG 4070 Agricultural Geography, 4 units

GEOG 4350 Urban Geography, 4 units

b. **Topical Physical Geography (6 units)**

Complete the following two courses:

GEOG 3100 Climatology, 3 units

GEOG 4120 Geomorphology, 3 units

c. **Regional Geography (6 units minimum)**

Complete two of the following courses:

GEOG 3510 Geography of North America, 3 units

GEOG 3550 Geography of Europe, 3 units

GEOG 3570 Geography of Russia and East Europe, 3 units

GEOG 3590 Geography of Asia, 4 units

*Note: With prior approval, certain other regional geography courses may be substituted for the courses listed above. See your adviser.*

d. **Methodology (6 units minimum)**

Complete two of the following courses:

GEOG 3700 Cartography, 3 units

GEOG 4700 Death Valley Landscapes, 4 units

GEOG 4710 Field Methods, 3 units

*Note: In the event that GEOG 4700 or 4710 is not available, see your adviser regarding a senior thesis option.*

e. **Upper-division Electives**

Select electives to complete a total of at least 36 units, including those upper-division units listed above.

*Note: Three units of upper-division work in computer science, taken outside of the Department of Anthropology/Geography, may be applied as part of the upper-division electives in geography. Recommended is CS 4000, Personal Computing, 3 units.*

## The Minor

### Requirements (18 units)

Complete 18 semester units approved by the minor adviser, including at least 15 units in upper-division courses. These upper-division units must include a minimum of one course from each of the following three categories:

1. Human Geography
2. Physical Geography
3. Regional Geography

*Note: See the department for further information.*



## Liberal Studies Concentration

Liberal Studies majors who wish to take their concentration in geography are to complete a minimum of 20 units, including at least 15 units of upper-division courses.

### Requirements (20 units)

1. Complete two of the following courses (6 units):
  - GEOG 2010 Introduction to the Natural Environment, 3 units
  - GEOG 2400 World Regional Geography, 3 units
  - GEOG 2420 Third World Regions, 3 units
2. Complete the following courses (6 units):
  - GEOG 3010 Cultural Geography, 3 units
  - GEOG 3020 Human Ecology, 3 units
3. Complete the following regional course (3 units):
  - GEOG 3510 Geography of North America, 3 units
4. Complete additional units in geography (5 units), based on interest and career goals.

## Teaching Credentials

Majors in geography interested in a single subject teaching credential should review the social sciences waiver described in the "Social Sciences" section of this catalog. Please refer to the "School of Education, Teacher Education" section of this catalog for a description of other requirements to be completed for the single subject credential.

## Course Descriptions

### *Lower Division*

***GEOG 2010 Introduction to the Natural Environment (3 units).*** Analysis of the distribution and character of major aspects of the natural environment, including weather, climate, landforms, soils, vegetation, and their significance and meaning to humans; humankind's impact on and use of these elements. (CAN, GEOG 2) (Fall, Spring)

***GEOG 2020 Introduction to Cultural Geography (3 units).*** A broad based geographical survey of major components of human culture, including forms of livelihood, religion, and language. An introduction to themes in the study of folk culture, popular culture, and settlement patterns.

***GEOG 2400 World Regional Geography (3 units).*** A survey of the major regions of the Old World, including Asia, Europe, and Africa, with emphasis on environment and contemporary economic and cultural conditions. Key topics to be considered include location, population, political status, the natural environment, type of economy, potentialities, and current problems. (CAN, GEOG 4)

***GEOG 2420 Third World Regions (3 units).*** A regional analysis of Africa and the Middle East, Asia, and Latin America, examining the spatial patterns of natural and human phenomena. Includes consideration of demographic and cultural characteristics, land use patterns, resulting economics, and current problems. (CAN GEOG 4)

## ***Upper Division***

***GEOG 3010 Cultural Geography (3 units)***. Study of the spatial variety and patterns in human cultures and an analysis of the processes of cultural change. Topics include agriculture, land use, religion, migrations, ethnic minorities, and language. Prerequisite: Junior standing. (Fall)

***GEOG 3020 Human Ecology (3 units)***. Study of environmental problems arising from human use of the earth's resources. Topics include population dynamics, natural resource management, land use, coastal preservation, energy resources, and humankind's relationship to nature. (Fall, Spring)

***GEOG 3100 Climatology (3 units)***. The elements and controls of weather and climate; analysis of climatic regions of the world. Prerequisite: GEOG 2010 or consent of instructor. (Normally offered alternate years)

***GEOG 3300 Geography of Economic Activities (3 units)***. Study of world economic activity from a geographic point of view; systematic analysis of agricultural, mining, and manufacturing patterns in the various regions of the world in relation to their natural and cultural settings. Considers locational determinants of human economic activities. Prerequisite: Junior standing or consent of instructor. (Normally offered alternate years)

***GEOG 3340 California Cultures and Environments (3 units)***. Course considers California's diverse natural regions and patterns in which these environments were occupied successively by native Americans, Hispanics, and later Americans. Studies modern California life, including the role and contributions of ethnic minorities, as well as demographic and environmental issues. (Fall)

***GEOG 3350 Geography of Alaska (3 units)***. A survey of the natural environment, cultural history, and economic landscape of Alaska. Special emphasis on important native and ecological issues facing Alaska today. Prerequisite: Junior standing or consent of instructor.

***GEOG 3510 Geography of North America (3 units)***. A survey of natural and cultural factors responsible for present patterns in settlement and land use in the United States and Canada; topics discussed include agriculture, industry, transportation, and urbanization. Prerequisite: Junior standing or consent of instructor. (Spring)

***GEOG 3550 Geography of Europe (3 units)***. The regional geography of Europe, with emphasis on present-day patterns. Prerequisite: Junior standing or consent of instructor. (Fall)

***GEOG 3570 Geography of Russia and East Europe (3 units)***. A survey of the physical geography, resources, agriculture, industry, people, potential and problems of Russia and the East European countries. Prerequisite: Junior standing or consent of instructor.

***GEOG 3590 Geography of Asia (4 units)***. A survey of the cultural and the natural landscapes in South, Southeast and East Asia. Covers trends in urbanization and modernization in general. Prerequisite: Junior standing or consent of instructor.

***GEOG 3650 Selected Topics in Regional Geography (1-3 units).*** Regional emphasis or topic varies each semester. Course may be repeated. Prerequisite: Junior standing or consent of instructor.

***GEOG 3700 Cartography (3 units).*** Introduction to thematic cartography; fundamentals of map reading and cartographic portrayal including map design, compilation, drafting, and reproduction. (Lecture, 2 hours; laboratory, 2 hours) Prerequisite: Three units of geography or consent of instructor.

***GEOG 3930 Historical Geography of the Central Mother Lode (1 unit).*** An individually-paced, two-day field trip which involves following a trip guide to sites in and around the communities of Jamestown, Sonora, Columbia, Angels Camp, Murphys, Jackson, Volcano, Sutter Creek, Amador City, and Fiddletown. At each site, students are directed to play recorded lectures on topics ranging from early gold mines, mining methods, mining towns, local history, geography, and geology. (Fall, Spring, Summer)

***GEOG 3950 Historical Geography of the Northern Mother Lode (1 unit).*** An individually-paced, two-day field trip which involves following a trip guide to sites in and around the communities of Folsom, Coloma, Grass Valley, Nevada City, and North Bloomfield. At each site, students are directed to play recorded lectures on topics ranging from early gold mines, mining methods, mining towns, local history, geography, and geology. (Fall, Spring, Summer)

***GEOG 3960 The Yosemite Region: A Self-Guided Field Trip (1 unit).*** Course consists of individually paced field trip of Yosemite National Park and its setting. Topics covered include geology, park history, environmental concerns and park management. Course involves following an itinerary using a guide book, maps, and taped discussions which are played in the field at designated locations. Takes two to three days depending on student travel plans. Student arranges own departure and return dates and, if necessary, overnight lodging. Student provides own transportation. Offered all year, weather permitting. (Fall, Spring, Summer)

***GEOG 4000 Current Trends in Geography (1-2 units).*** A symposium on geography featuring speakers on their special areas of research, including current theories and research approaches in geography. Topics differ each term. May be repeated for no more than 4 units of credit towards the major. Prerequisite: One lower division geography class or consent of instructor.

***GEOG 4070 Agricultural Geography (4 units).*** Course examines a variety of agricultural systems in the world from an agro-ecological approach. The natural resources and cultural factors which interact to shape and change agricultural systems are studied in detail. (Formerly 3070) Prerequisite: One course in physical geography. (Fall)

***GEOG 4120 Geomorphology (3 units).*** Study and interpretation of the earth's natural landforms; their distribution and the processes acting on them; includes consideration of landform evolution under varied climatic regimes. (Formerly 3120) Prerequisite: An introductory course in geology or geography. Climatology recommended. (Spring)

**GEOG 4140 *Natural Regions of the United States (3 units)***. A detailed examination of the physiographic provinces of the United States with respect to their structure, the role of climate and vegetation in altering landform surface, and the resultant regional patterns. Prerequisite: GEOG 4120 or consent of instructor.

**GEOG 4210 *Geographic Problems in the Developing World (3 units)***. Analysis of natural and cultural conditions pertinent to development. Consideration of the role of geography in solution of development problems. Prerequisite: An introductory course in geography. (Spring)

**GEOG 4301 *Geography and Environmental Planning (3 units)***. A survey of the linkages between geography and planning; topics may include emphasis on planning needs of non-urban regions; provisions of human services; maps as planning tools; despoliation and preservation of rural areas. Prerequisite: Junior standing or consent of instructor.

**GEOG 4350 *Urban Geography (4 units)***. Study of the spatial aspects of the city. Emphasis on the relationship of cities to each other and to the countryside, as well as on the internal structure and spatial dynamics of urban centers. Special consideration given to problems of the urban environment including urban sprawl, water and recreational needs, and controls of land use. Field trips may be required. Prerequisite: Junior standing or consent of instructor. (Fall)

**GEOG 4610 *Historical Geography of the United States (3 units)***. A study of the evolution of cultural landscapes in the United States. Emphasis on initial and sequential settlement patterns, routes of diffusion and migration, and use of resources in light of cultural traditions. Comparative analysis of regional differences in material folk culture. Prerequisites: Junior standing or consent of instructor.

**GEOG 4650 *Seminar in Geography (1-3 units)***. Topic or emphasis varies each semester; course may be repeated. Prerequisite: Six units of geography or consent of instructor.

**GEOG 4700 *Geographical Processes in Arid Landscapes: Death Valley (4 units)***. Using field techniques in geography, the course analyzes geomorphic processes, climate characteristics, vegetation patterns and adaptations, and human impacts in an arid environment. Course is taught in Death Valley, and is offered only Winter Term. Prerequisite: A course in physical geography and consent of instructor.

**GEOG 4710 *Field Methods (3 units)***. Methods of field observation; techniques of data collection and analysis; field work and report writing required. Satisfies upper division writing proficiency requirement. Prerequisite: Six units in geography or consent of instructor. (Fall)

**GEOG 4720 *Local Field Excursions (1 unit)***. Provides students with directed field experiences, involving travel to and study of areas of special geographic significance such as Yosemite, Point Reyes, Mono Lake, and others. Course may be repeated to various destinations. Prerequisite: Consent of instructor.

**GEOG 4730 *Computer Applications in Geography (1-3 units)***. A tutorial course for self-motivated students familiar with the Macintosh computer. Students will learn mapping techniques and geographic information systems from available software. Prerequisites: Consent of instructor and knowledge of cartography.

***GEOG 4750 Geographic Information Systems (3 units).*** The use of computers for input, storage, representation, and retrieval of spatial data for cartographic purposes; GIS as a tool in information management and decision making. Prerequisite: Consent of instructor and computer experience.

***GEOG 4800 Survey of Geography Thought and Literature (3 units).*** Survey of the history and philosophy of geography, its place among the sciences and social sciences, and the major contributors to the development of modern scientific geography. Prerequisite: Consent of instructor.

***GEOG 4840 Geography and the Earth Sciences for Teachers (3 units).*** For in-service teachers, teacher trainees, and all who are or will be teaching geographic and earth science concepts at the elementary, high school, or college level; a survey of the concepts, tools, and methods of modern geography and related earth sciences. Prerequisite: Three units of geography or consent of instructor.

***GEOG 4900 Directed Field Research (1–5 units).*** Field research conducted in any subdiscipline of geography under the direction of a specific faculty member. May be repeated for a total of 6 units. Prerequisites: Junior standing and consent of instructor.

***GEOG 4910 Cooperative Education (2–4 units).*** Provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students serve in private or public sector positions under the supervision of the employer and Department Co-op Coordinator. May be repeated for a total of 6 units. Prerequisites: Sophomore standing and consent of departmental coordinator. (Fall, Winter, Spring).

***GEOG 4930 Planning Issues (1–2 units).*** On an individual basis, students will attend a selection of urban and/or county planning meetings during one term and develop reports related to issues discussed. Must provide own transportation. Prerequisite: Consent of instructor.

***GEOG 4940 Internship in Geography (1–6 units).*** This course is designed for students who are serving as interns in public or private agencies. Students serve internship as arranged between the agency and the department. Prerequisites: Nine upper-division units in geography and consent of instructor.

***GEOG 4950 Selected Topics in Geography (Topics to be specified in Class Schedule) (1–5 units).*** Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

***GEOG 4980 Individual Study (1–4 units).*** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

***GEOG 4990 Senior Thesis (3 units).*** Senior thesis (a research topic to be agreed upon by the student and major professor). Geographic research and writing incorporating primary sources of data and geographic methods. Prerequisites: Senior standing, advanced course work in geography, and consent of instructor.

### ***Postbaccalaureate***

***GEOG 5800 Seminar in the Development of Geographic Thought (3 units).*** Seminar in the history and philosophy of geography, its place among the sciences and humanities, and the major contributors to the development of modern scientific geography. Prerequisite: Graduate standing and consent of instructor.

***GEOG 5850 Seminar in Graduate Research (2 units).*** The course considers the techniques used, problems encountered, and results of the current research of graduate students. May be repeated once for credit. Prerequisite: Graduate standing and consent of instructor.

***GEOG 5900 Directed Field Research (1-5 units).*** Field research conducted in a subdiscipline of geography under the direction of a specific faculty member. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. Available only for postbaccalaureate credit.

***GEOG 5940 Internship in Geography (1-6 units).*** This course is designed for postbaccalaureate or graduate students who are serving as interns in public or private agencies. Students serve internship as arranged between the agency and the department. Prerequisite: Graduate standing and consent of instructor.

***GEOG 5950 Selected Topics in Geography (1-5 units).*** Innovative course of study in seminar format. Topics vary. Different topics may be taken for credit. Prerequisite: Consent of instructor. Available only for postbaccalaureate credit.

***GEOG 5980 Individual Study (1-4 units).*** Individual study for qualified postbaccalaureate students in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

***GEOG 5990 Thesis (3-6 units).*** Thesis research. May be repeated for a total of 6 units. Prerequisite: Consent of graduate adviser.



## Geology

Office: Science Building 256, (209) 667-3090  
 Coordinator: Abbas Kimyai  
 Faculty: Abbas Kimyai

The Department of Physics and Geology offers undergraduate curricula leading to the Bachelor of Science degree in geology. The program consists of required courses plus electives to meet the needs of students who are preparing for employment in geology and for admission to graduate study in geology.

The Bachelor of Science degree in geology serves as professional preparation for employment in fields such as geologic planning specialist, environmentalist, and park naturalist. The program is designed to provide the kind of comprehensive background required for students who wish to seek additional training in graduate and/or professional schools.

## Bachelor of Science, Geology

### Requirements

1. Complete University requirements for a Bachelor of Science degree (51 units minimum).
2. Complete the following prerequisites to the major (32-34 units):
  - a. CHEM 1100, 1110 Principles of Chemistry I, II, 10 units
  - b. MATH 1600 Statistics, 4 units, *or*  
MATH 1910, 1920 Calculus with Applications I, II, 6 units
  - c. Introductory Computer Programming in Basic, Fortran or Pascal, 2-4 units
  - d. PHYS 2100, 2110 Basic Physics I, II, 10 units, *or*  
PHYS 2250, 2260 General Physics I, II, 8 units, *and*  
PHYS 2252, 2262 General Physics Laboratory I, II, 2 units
  - e. GEOL 2100 Principles of Geology, 3 units *and*  
GEOL 2102 Principles of Geology Lab, 1 unit
  - f. Lower-division geology electives, 6 units
3. Select a 12-unit option in Geology or Petroleum Geology/Geophysical Exploration. The Bachelor of Science degree in Geology requires 26 units of upper-division units and completion of a 12-unit option.
4. Complete the major of not less than 38 upper-division units as specified for the Bachelor of Science degree.
5. Completion of a minor is not required.

### The Major (38 units)

1. Complete the following required courses (26 units):
  - GEOL 3300 Paleontology, 4 units
  - GEOL 3400 Plate Tectonics, 4 units

- GEOL 4300 Minerals and Crystals, 3 units
- GEOL 4360 Structural Geology, 4 units
- GEOL 4380 Sedimentary Rocks, 4 units
- GEOL 4390 Stratigraphy, 3 units
- GEOL 4500 Field Geology, 4 units.

2. Select 12 units from either option a or b. Substitution of science or mathematics courses is permitted by approval of adviser.

*a. Geology Option*

- GEOL 3000 Physical and Environmental Geology, 4 units
- GEOL 3100 Earth Science I, 3 units
- GEOL 3110 Earth Science II, 3 units
- GEOL 3500 Earthquakes & Volcanoes, 3 units
- GEOL 3700 Igneous and Metamorphic Petrology, 4 units
- GEOL 3800 Optical Mineralogy, 3 units
- GEOL 3810 Hydrogeology, 3 units
- GEOL 3900 Soil Geology, 3 units
- GEOL 4350 Geophysical Explorations, 3 units
- GEOL 4351 Advanced Seismic Interpretation, 3 units
- GEOL 4600 Geology of Petroleum, 3 units
- GEOL 4800 Advanced Theory of Hydrogeology, 4 units
- GEOL 4810 Water Resources Development and Management, 4 units
- GEOG 4120 Geomorphology, 3 units

*b. Petroleum Geology/Geophysical Explorations Option*

- GEOL 4350 Geophysical Explorations, 3 units
- GEOL 4351 Advanced Seismic Interpretation, 3 units
- GEOL 4600 Geology of Petroleum, 3 units
- Geology elective, 3 units

**Petroleum Geology/Exploration Geophysics Concentration**

**Requirements (24 units)**

1. Complete the following courses (13 units):

- GEOL 3100 Earth Science I, 3 units
- GEOL 3400 Plate Tectonics, 4 units
- GEOL 4350 Geophysical Explorations, 3 units
- GEOL 4600 Geology of Petroleum, 3 units

2. Complete 11 elective units from the following courses or other electives in consultation with your adviser:

- GEOL 3000 Physical and Environmental Geology, 4 units
- GEOL 3110 Earth Science II, 3 units
- GEOG 3700 Cartography, 3 units
- GEOG 4120 Geomorphology, 3 units
- GEOL 4300 Minerals and Crystals, 3 units
- GEOL 4351 Advanced Seismic Interpretation, 3 units
- GEOL 4360 Structural Geology, 4 units
- GEOL 4380 Sedimentary Rocks, 4 units
- GEOL 4390 Stratigraphy, 3 units
- GEOL 4500 Field Geology, 4 units



## The Minor

### Requirements (18 units)

1. Select three to ten units selected from the following lower-division courses:

- GEOL 2001 Regional Geology of California, 3 units
- GEOL 2100 Principles of Geology, 3 units
- GEOL 2102 Principles of Geology Lab, 1 unit
- GEOL 2200 Historical Geology, 4 units

*Note: Equivalent substitution permitted with approval of minor adviser.*

2. Complete upper-division courses as approved by minor adviser, 8–15 units.

### Course Descriptions

#### *Lower Division*

**GEOL 2001 Regional Geology of California (3 units).** Survey of rocks, minerals, ages of geological formations and plate tectonics—continental drift, followed by field studies of the geology of the great valley, or coastal ranges, or the Sierra Nevada mountains. (Lecture, 2 hours; field trips) This course may be repeated for a total of 6 units, but only 3 units are applicable to General Education: Great Valley, 3 units; Coastal Ranges, 3 units; Sierra Nevada Mountains, 3 units. (Fall, Spring)

**GEOL 2100 Principles of Geology (3 units).** An introductory course in physical geology dealing with materials and the internal and external processes. Includes global plate tectonics which are responsible for producing and sculpturing geological features of the Earth's crust. (Lecture, 3 hours) Satisfies lecture requirement for General Education section B1. (Fall, Spring)

**GEOL 2102 Principles of Geology Lab (1 unit).** Laboratory to accompany GEOL 2100 Principles of Geology. Classification of minerals and rocks; reading and interpreting topographic and geologic maps; studies of selected problems in plate tectonics, structural geology, ground water, mass movement, etc. (Laboratory, 3 hours, including some field trips). Prerequisite: GEOL 2100 or concurrent enrollment in GEOL 2100. Optional for non-majors; fulfills lab requirements for General Education section B1. (Fall, Spring)

**GEOL 2200 Historical Geology (4 units).** Introduction to the application of scientific method to the study of the history of the earth from its origin to the present; consideration of the principles and methods by which earth history is deciphered; nature and paleogeography of Paleozoic, Mesozoic, and Cenozoic eras. (Lecture, 3 hours; laboratory, 3 hours) (Winter)

#### *Upper Division*

**GEOL 3000 Physical and Environmental Geology (4 units).** Interaction of man with the geological environment. Geological weathering and soil formation; soil geology and soil erosion; world mineral resources; waste disposal; air and water pollution; energy resources. (Lecture, 3 hours; laboratory or field work, 3 hours) (Fall, Spring)

**GEOL 3100 Earth Science I (3 units).** Study of physical properties of rocks, earth's internal structure, seismic techniques of earthquakes, gravity, and magnetic properties of the earth. (Lecture, 3 hours) Prerequisite: GEOL 2100 and GEOL 2102 or consent of instructor.

**GEOL 3110 Earth Science II (3 units).** Continuation of GEOL 3100. Prerequisite: GEOL 3100.

**GEOL 3300 Paleontology (4 units).** Morphology, systematics, evolution, and paleoecology of fossil organisms with emphasis on the phyla of major invertebrate fossils. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: GEOL 2100 and GEOL 2102 or equivalent.

**GEOL 3400 Plate Tectonics (4 units).** Study of the theory of plate tectonic and present magnetic gravity, heat flow, earthquake, and other evidence in the support of the theory. (Lecture, 4 hours) Prerequisite: GEOL 2100.

**GEOL 3500 Earthquakes and Volcanoes (3 units).** Application of the scientific method and geologic principles to study the nature, causes, and prediction of earthquakes and volcanoes; analysis of earthquakes and volcanoes in regional settings such as the San Andreas Fault, Coalinga, Morgan Hill, and Mammoth Lake earthquakes. (Lecture, 3 hours) Prerequisite: Completion of lower division General Education in natural sciences and mathematics, or consent of instructor. (Fall, Spring)

**GEOL 3700 Igneous and Metamorphic Petrology (4 units).** Origin, occurrence, identification, and classification of igneous and metamorphic rocks; mineralogical and textural features of igneous and metamorphic terrains will be examined; laboratory work will include examination of samples in hand specimen and thin sections. (Lecture 3 hours; laboratory, 3 hours, including some field trips) Prerequisite: GEOL 2100 and GEOL 2102.

**GEOL 3800 Optical Mineralogy (3 units).** Optical properties of minerals; identification of selected minerals by optical methods; theory and use of polarizing microscope for determining optical properties of minerals. (Lecture, 2 hours; laboratory, 3 hours) Prerequisite: GEOL 2100 and GEOL 2102.

**GEOL 3810 Hydrogeology (3 units).** Theory of ground water; factors related to occurrence and development of ground water resource; occurrence of water in plutonic, sedimentary, metamorphic, and alluvial terrains. (Lecture, 3 hours) Prerequisite: GEOL 2100 and GEOL 2102

**GEOL 3900 Soil Geology: Application to Agriculture and Hydrogeology (3 units).** A study of the linkages between geology, hydrogeology, and soil sciences; emphasis on soil genesis, including weathering and alteration of organic compounds, soil texture, soil structure, soil profile, soil classification, soil testing, and soil conservation. (Lecture, 3 hours). Prerequisite: GEOL 2100 and GEOL 2102 or consent of instructor. (Spring)

**GEOL 4300 Minerals and Crystals (3 units).** Study and classification of crystals, physical properties of crystals with their chemical composition, property of light, and optical properties of minerals under polarized light. (Lecture, 2 hours; laboratory, 3 hours) Prerequisite: GEOL 2100 and GEOL 2102 or consent of instructor.

**GEOL 4350 Geophysical Explorations (3 units).** Geophysical exploration techniques: seismic wave propagation; seismic recording instruments; seismic reflection and refraction methods; gravity surveys; magnetic surveys; and geological interpretation of geophysical data. (Lecture, 3 hours) Prerequisites: GEOL 2100, GEOL 2102 and PHYS 2110, or consent of instructor.

**GEOL 4351 Advanced Seismic Interpretation (3 units).** The course will contain (a) the study of wave propagation in layered media; correction for weathered layers; (b) determination of wave velocity in different layers; (c) utilization of experimental data to determine the possible structure of the petroleum reservoirs. (Lecture, 3 hours) Prerequisite: GEOL 4350.

**GEOL 4360 Structural Geology (4 units).** Structural geology deals with the ways that rocks respond to deforming forces. The ultimate aim of structural geology is to establish the history of displacements, strains, stresses, strain rates, temperatures, and pressures that the crust and upper mantle have experienced. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: GEOL 2100 and GEOL 2102.

**GEOL 4380 Sedimentary Rocks (4 units).** The origin, dispersal, deposition, and burial of natural sediment grains. Sedimentology is approached from two viewpoints: a descriptive approach through traditional petrography and facies analysis, and a quantitative approach through physical and chemical sciences. (Lecture, 3 hours; discussion, 1 hour) Prerequisite: GEOL 2100 and GEOL 2102. (Spring)

**GEOL 4390 Stratigraphy (3 units).** A review of rock formations and types of rocks. Sedimentary rocks will be discussed in detail. These formations will be classified and correlated. Interpretation of depositional environment will be discussed in detail. (Lecture, 3 hours) Prerequisite: GEOL 2100 and GEOL 2102. (Fall)

**GEOL 4500 Field Geology (4 units).** Study of geological maps and preparation of local maps for use in field study; locate and study specific geologic structures. (Lecture, 2 hours; laboratory, 6 hours) Prerequisite: GEOL 2100 and GEOL 2102 or consent of instructor.

**GEOL 4600 Geology of Petroleum (3 units).** The origin of petroleum; hydrocarbon, its formation and migration into reservoir rocks will be discussed with emphasis on the types of oil fields. (Lecture, 3 hours) Prerequisite: GEOL 2100 and GEOL 2102.

**GEOL 4800 Advanced Theory of Hydrogeology (4 units).** This course deals in detail with hydrodynamics of fluid flow through porous media. Detailed analysis of fluid flow as a function of space and time in the cylindrical coordinates. This course is an integral part of hydrology dealing with water supplies in aquifers and water pollution. (Lecture, 3 hours; discussion, 1 hour) Prerequisites: 1 year physics: PHYS 2100 & 2110 or PHYS 2250 & 2260 and 1 year mathematics: MATH 1410 & 1420 or MATH 1910 & 1920 or consent of instructor.

**GEOL 4810 Water Resources Development and Management (4 units).** Appraisal of water-resource developments from the standpoints of hydrogeology and desirable public policy; need for a national water policy to prevent waste, reduce pollution, control floods, recharge aquifers, and promote activities. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: GEOL 2100 and GEOL 2102.

**GEOL 4910 Cooperative Education (2-4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisite: Sophomore standing; consent of departmental coordinator. (Fall, Spring)

**GEOL 4940 Geology Internship (1-3 units).** This course is intended for students who are serving as interns or conducting field work with private or governmental agencies. May be repeated for a total of 6 units. Prerequisites: Upper-division standing and consent of adviser. (Fall, Spring)

**GEOL 4950 Selected Topics in Geology (1-5 units).** Special studies in selected areas of geology. Course content may vary each term; different titles may be taken for credit. Prerequisite: Upper-division standing or consent of instructor. (Fall, Spring)

**GEOL 4980 Individual Study (1-4 units).** For the student capable of independent study in geology; may be field-oriented or the study of some specialized topic. Prerequisite: Consent of instructor. (Fall, Spring)

### **Postbaccalaureate**

**GEOL 5900 Directed Field Research (1-6 units).** Field research to be conducted in an area of geology under the general supervision of a faculty member. May be repeated for a total of 6 units. Prerequisite: Bachelor's degree and consent of instructor. (Fall, Spring)

**GEOL 5980 Individual Study (1-4 units).** For students capable of independent work and in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Spring)

**GEOL 5990 Thesis (1-6 units).** Preparation of a thesis for partial fulfillment of special master's program. Prerequisite: Admission to classified graduate standing. (Fall, Spring)



# Gerontology

## Degree Minor

Office: Classroom Bldg 213, (209) 667-3408  
 Coordinator: Walter E. Doraz

Gerontology is the study of aging with particular focus on the latter part of the life cycle. It is an interdisciplinary minor open to students in any major. The minor's primary objective is to examine biological-physiological, sociological-psychological, economic-political, and related health and cultural processes as they contribute to understanding human aging. This option is designed to serve individuals majoring in social sciences and health professions, people currently working for organizations serving the aging, and all persons interested in gaining greater insight into the problems and opportunities associated with aging.

### Requirements (18 units)

1. Complete the following required courses (12 units):
  - MDIS 3000 Introduction to Gerontology, 3 units
  - PSYC 3340 Human Development III: Adulthood and Aging, 3 units
  - SOCL 4710 Sociology of Aging, 3 units
  - SPCH 4130 Communication and Aging, 3 units
2. Select one elective course each from areas *a* and *b* below (6 units):
  - a.*
    - ETHS 4000 The Mexican-American Family, 3 units
    - ETHS 4010 The Black American Family, 3 units
    - SOCL 3150 The Family, 3 units
  - b.*
    - PSYC 3320 Introduction to Personality, 3 units
    - SOCL 4700 Medical Sociology, 3 units
    - SOCL 4720 Sociology of Death, 3 units
    - SOCL 4730 Alcohol and Alcoholism, 3 units

*Note: It is strongly recommended that students complete an internship or immersion program in their major which complements their interest in gerontology.*

### Course Description

**MDIS 3000 Introduction to Gerontology (3 units).** A broad overview of the current concepts, issues, and processes associated with human aging and the latter part of the life cycle. The problems and challenges facing the older person will be explored from the perspectives of various disciplines as they contribute to our understanding of related systems. Prerequisite: Consent of instructor.



## History

**Office:** Classroom Building 118, (209) 667-3238  
**Chair:** Britten Dean  
**Faculty:** Austin Metumara Ahanotu, John E. Caswell (Emeritus), Britten Dean, Curtis R. Grant, Samuel A. Oppenheim, John P. Rasmussen, Samuel O. Regalado, J. W. Smurr (Emeritus), David Bentheim Stenzel (Emeritus), Nancy J. Taniguchi, Ronald J. VanderMolen

The Department of History offers the degrees Bachelor of Arts, History; Master of Arts, History; Master of Arts in History, with a concentration in International Relations; and Master of Arts in History, with a concentration for secondary school teachers. The University also offers the degree Bachelor of Arts, Liberal Studies, with a concentration in History for those seeking a multiple subjects credential.

History provides a general background for studying the humanities or social sciences and understanding the contemporary world. Preparation in history is especially useful for careers which require careful judgment on the basis of limited evidence, such as the United States Foreign Service, journalism, and law, as well as teaching and a variety of civil service functions.

The Department of History supports the concept of international education and encourages students to investigate opportunities for overseas study described elsewhere in the catalog.

### Bachelor of Arts, History

#### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (8 units).
  - a. A one-year sequence in American, European, or non-Western history, 6 units
  - b. HIST 2900 Library Resources and Bibliographical Control for Historical Research, 2 units

*Note: MDIS 2000 and SSCI 3000 also satisfy this requirement.*

3. Complete the major of 30 upper-division units. No courses graded CR may be counted towards the major, except for eight units taken in courses graded exclusively CR/NC.
4. Completion of a minor is not required.

*Note: Reading knowledge of a foreign language is desirable for the Bachelor's degree and is required for some of the graduate history programs here and in most other schools.*

#### The Major (30 units minimum)

1. Select one course in upper-division European history from the following list (3 units):
 

HIST 3120	Ancient Mediterranean World, 3 units*
HIST 3140	Medieval Europe, 3 units*
HIST 3210	Renaissance & Reformation, 3 units*

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- HIST 3220 Absolutism and Revolution, 3 units
  - HIST 3230 Nineteenth Century Europe, 3 units
  - HIST 3240 Twentieth Century Europe, 3 units
2. Select one course in upper-division American history from the following list (3 units):
- HIST 3610 Colonial America, 3 units
  - HIST 3620 Early National America, 3 units
  - HIST 3630 America after the Civil War, 3 units
  - HIST 3640 Contemporary America, 3 units
3. Complete two upper-division courses in non-Western history from the following list (6 units):
- HIST 3510 Latin America in Colonial Times, 3 units\*
  - HIST 3520 Latin America Since Independence, 3 units
  - HIST 3800 East Asia in Traditional Times, 3 units\*
  - HIST 3810 East Asia in the Modern World, 3 units
  - HIST 3860 Africa Before 1885, 3 units\*
  - HIST 3880 Contemporary Africa, 3 units
  - HIST 4041 Colonialism and the Modern State in Africa and Asia, 3 units
- Note:* At least two courses from 1, 2, & 3 above must be in a pre-modern era. Courses fulfilling this requirement are starred (\*). Also fulfilling this requirement is:
- HIST 4350 English Culture to 1603, 3 units.
4. Select one of the following courses (4 units):
- HIST 4960 Directed Reading Seminar, 4 units
  - HIST 4990 Senior Thesis, 4 units
5. Complete sufficient electives to equal at least 30 upper-division units in history.

## Minor in History

### Requirements (18 units)

Complete 18 units in history, of which 12 units must be upper-division history courses. All but Winter Term courses are to be taken for a letter grade.

Select courses for the degree minor in history in consultation with and approval of the minor adviser.

## Liberal Studies Concentration in History

### Requirements (20 units)

Upon advisement, complete 20 units from both Western (American and European) and non-Western courses, in approximately equal amounts. At least 15 units must be upper division.

## Teaching Credentials

The history single subject waiver program requires a combined total of 45 lower and upper-division units. The program approximates the above list of major requirements, but the exact course requirements can be obtained from the Department of History. Please refer to the "School of Education, Teacher Education" section of this catalog for a description of other single subject credential requirements.

## Master of Arts Degree Programs in History

There are three degree programs within the Master of Arts, History:

### 1. *Master of Arts*

This degree program is appropriate for persons interested in pursuing the study of history for college teaching or for other purposes. Students may specialize in American or modern European history.

### 2. *Master of Arts: Secondary School Teachers Concentration*

This program is designed for persons with junior or senior high school teaching credentials and is considered a terminal degree.

### 3. *Master of Arts: International Relations Concentration*

This program is of particular interest to those in professional military careers, those wishing to supplement their professional training in certain civil service careers, and those desiring an interdisciplinary background for teaching.

## Prerequisites for Admission

### *All Programs*

1. A grade point average of 3.0 in the undergraduate major and in all subsequent course work. Since applicants' experience is considered toward admission to the Secondary School Teachers and the International Relations Concentrations, students applying to those programs who lack the 3.0 GPA may petition for admission with conditionally classified status.
2. Satisfactory performance in the General Aptitude section of the Graduate Record Examination.

### *Master of Arts*

Complete prerequisites for admission to all programs listed above, as well as the following:

1. Twenty-four units of upper-division history, including a senior thesis or equivalent.
2. Satisfactory performance in the history section of the Graduate Record Examination.
3. Reading knowledge of an appropriate foreign language or 9 units of approved 4000- and 5000-level course work in other departments.

### *Secondary School Teachers Concentration*

Complete prerequisites for admission to all programs listed above, and have the following:

1. A valid California single subject teaching credential or a teaching minor in Social Sciences, History, or Government.
2. Adequate academic background as evaluated by the Graduate Committee.

### *International Relations Concentration*

Complete prerequisites for admission to all programs listed above, and demonstrate adequate academic background, informal preparation and/or job-related experience, as evaluated by the History/International Relations Graduate Committee.



## Requirements for the Degree

Each student will be assigned an adviser immediately upon acceptance. The student and adviser will develop a program adapted to the student's specific goals. After the student completes a minimum of 10 units and is promoted to "candidate for the degree," an examining committee will be appointed for the candidate.

### All Programs

1. Thirty units are required, of which 24 units are to be taken in courses offered by CSU Stanislaus.
2. Fifteen of the 24 units are to be taken after admission to classified graduate standing.
3. No course work below "B" may be applied to any M.A. requirement, nor are CR-graded courses applicable.
4. When enrolled in a 4000-level (senior) course, the graduate student must do an appropriate paper or equivalent exercise beyond that required of undergraduates.
5. Each student's record will be reviewed after completing 10 units, and periodically thereafter, by the appropriate graduate committee. The student must maintain satisfactory progress.
6. A student not doing a thesis must submit at least two substantial papers through the adviser to be read by the examining committee.
7. A comprehensive written examination is required of all candidates and will cover all work taken in the program. In addition, an oral examination may be required at the discretion of the examining committee.
8. In the papers and examination, the student is expected to demonstrate knowledge of subject matter, including working knowledge of the seminal works in the field, and competence in the following three skills: ability to perform research operations, analytical skills, and literary skills.

### Master of Arts

Complete all of the requirements for all programs listed above, as well as the following:

1. At least 15 graduate units from the following:
 

HIST 5910	Graduate Studies—American and/or HIST 5920 Graduate Studies—European (two four-unit sections required, 8 units)
HIST 5930	History of Historical Writing (required), 4 units
HIST 5970	Selected Topics offered during Winter Term, 2–4 units
HIST 5980	Individual Study, 1–4 units
HIST 5990	Thesis, 3–6 units
2. Additional units to complete a minimum of 30 units selected from the 4000- and 5000-level courses listed in the catalog, except for HIST 4970, 4980, and 4990, for which parallel graduate numbers exist.

### Secondary School Teachers Concentration

Complete all of the requirements for all programs listed above, as well as the following:

1. At least 15 graduate units from the following:
 

HIST 5910	Graduate Studies—American or HIST 5920 Graduate Studies—European (one section required; 4 units)
HIST 5930	History of Historical Writing (required), 4 units
HIST 5980	Individual Study, 1–4 units
HIST 5990	Thesis, 3–6 units

2. Additional units to complete a minimum of 30 units selected from the 4000- and 5000-level courses listed in the catalog, except for HIST 4970 and 4980. Up to nine units of appropriate course work in a field other than History may be selected from senior and graduate courses in other departments, provided the student has completed the specified prerequisites.

### ***International Relations Concentration***

Complete all of the requirements for all programs listed above, as well as the following:

1. At least 15 graduate units from the following:
  - HIST/PSCI 5000 International Relations Seminar (required), 4 units
  - HIST 5910 Graduate Studies—American (may be repeated), 4 units
  - HIST 5920 Graduate Studies—European (may be repeated), 4 units
  - HIST 5930 History of Historical Writing (required), 4 units
  - HIST 5950 Selected Topics in History (may be repeated), 4 units
  - HIST 5980 Individual Study, 1–4 units
  - HIST 5990 Thesis (optional), 3–6 units
2. Additional units to complete a minimum of 30 units selected as follows:
  - a. Up to six units of appropriate postgraduate work from other institutions of higher learning may apply toward this requirement.
  - b. A 5000-level course listed above, or appropriate winter term courses numbered HIST 5970, PSCI 5970, or ECON 5970.
  - c. Any of the following courses, or others as offered:
    - ECON 4050 Comparative Economic Systems, 3 units
    - ECON 4415 International Economics, 3 units
    - ECON 4420 Soviet Economics, 3 units
    - GEOG 3550 Geography of Europe, 3 units
    - GEOG 3570 Geography of the U.S.S.R. and Eastern Europe, 3 units
    - GEOG 4210 Geographic Problems in the Developing World, 3 units
    - HIST 4041 Colonialism and the Modern State in Africa and Asia, 3 units
    - HIST 4340 Modern Germany, 3 units
    - HIST 4360 British Culture, 1603 to the Present, 3 units
    - HIST 4430 Twentieth-Century Russia, 3 units
    - HIST 4600 American Diplomatic History, 3 units
    - HIST 4800 Modern China, 3 units
    - HIST 4840 Modern Japan, 3 units
    - HIST 4950 Selected Topics (when an international relations topic is taught), 1–5 units
    - HIST 4960 Directed Reading Seminar in History, 4 units
    - PSCI 4630 International Politics of Industrial Societies, 3 units

## **Course Descriptions**

### ***Lower Division***

***HIST 1010 World Civilizations I (3 units).*** Intellectual, political, and social history of world civilizations from their origins through approximately 1600. Examination of peoples' efforts to organize their society, to understand the nature of their universe, and to interpret the riddle of human destiny. (CAN HIST 2) (Fall)

**HIST 1020 World Civilizations II (3 units).** Continuation of HIST 1010. The world since approximately 1600. (CAN HIST 4) (Fall, Spring)

**HIST 2000 Readings in History (1–2 units).** Reading in a selected historical era. Concurrent enrollment in a related history course is required. Papers on works read will be required. Prerequisite: Consent of instructor. (Fall, Spring)

**HIST 2600 Problems in U.S. History (3 units).** Focus on selected issues and themes in American history, including examination of America in relation to the world; the American Revolution; rise of democratic politics; slavery, abolitionism, and sectional conflict; race and ethnic relations; philosophies of government; reform movements; foreign policy. Open only to freshmen and sophomores. (Fall, Spring)

**HIST 2900 Library Resources and Bibliographical Control for Historical Research (2 units).** Survey of abstracts, bibliographies, biographical directories, book review indexes, dictionaries, documents, encyclopedias, and indexes for historical research, and the application of footnote and bibliographical methods for history majors. (Same as PSCI 2900).

**HIST 2950 Selected Topics in History (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of history. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor. (Fall, Spring)

### **Upper Division**

**HIST 3000 Introductory Seminar in History (3 units).** Introduction to the study of history as a discipline, with focus on a major historical work. The circumstances under which the work was produced will be examined through reading, class discussion, and individual work with the instructor. Satisfies upper division writing proficiency requirement.

**HIST 3090 Contemporary World History (3 units).** Integrated global history of mankind since 1945. The aftermath of World War II; the Cold War; the collapse of colonial empires; the impact of the death of Stalin; the youth revolution; Sino-Soviet rivalry; and U.S.-Soviet detente. Prerequisite: Sophomore standing. (Spring)

**HIST 3120 Ancient Mediterranean World (3 units).** The Hellenistic Age, Roman Republic and Empire, and the triumph of Christianity. Prerequisite: Sophomore standing. (Fall)

**HIST 3140 Medieval Europe (3 units).** Western Europe from ca. 500–ca. 1300: a study of social, political, and intellectual developments. Prerequisite: Sophomore standing. HIST 1010 recommended.

**HIST 3210 Renaissance and Reformation (3 units).** European social, political, economic, and intellectual changes from the late Middle Ages to 1598: The Renaissance state; Renaissance-humanism; the Reformation; social impact of the Reformation. Prerequisite: Sophomore standing.

**HIST 3220 Absolutism and Revolution, 1598–1799 (3 units).** European social, political, economic, and intellectual changes: Royal absolutism; the scientific revolution; seventeenth-century revolutions; the Enlightenment; the French Revolution. Prerequisite: Sophomore standing. (Fall)

**HIST 3230 Nineteenth Century Europe (3 units).** Democratization in the age of nationalism; Napoleon to Sarajevo. Prerequisite: Sophomore standing. (Fall)

**HIST 3240 Twentieth Century Europe (3 units).** Origins of World War I: The War, the uneasy peace, the democracies and the dictators between the wars, World War II and the Cold War. Prerequisite: Sophomore standing. (Fall)

**HIST 3300 History of Western Christianity (3 units).** A survey of the development of Christianity from the age of Constantine to the present. Emphasis will be placed on Christian thought, Christian institutions, and the relationship between Christianity and society in Western history. Prerequisite: Sophomore standing. (Spring)

**HIST 3310 Judaism and Jewish History: An Introductory Survey (3 units).** A survey of the history of Judaism and the Jews from their origin to the rise of the state of Israel. Emphasis will be on Jewish thought, Jewish institutions, and the relationship between the Jewish and the non-Jewish world. Prerequisite: Sophomore standing. (Fall)

**HIST 3400 The Great Teachings (3 units).** History and analysis of major world religions and ideologies: Greco-Roman, Buddhist, Hindu, Judaic, Christian, Islamic, Marxist. Prerequisite: Sophomore standing. (Fall)

**HIST 3510 Latin America in Colonial Times (3 units).** A survey of Latin American history: native Indian cultures, European conquests and resulting cultural conflict, Spanish and Portuguese rule, and trends in colonial society. Prerequisite: Sophomore standing. (Fall)

**HIST 3520 Latin American States Since Independence (3 units).** From the struggle for independence to the mid-twentieth century. Prerequisite: Sophomore standing. (Spring)

**HIST 3610 Colonial America (3 units).** The Anglo-American colonies of the North American mainland, from their foundation through their maturation and struggle for independence to their emergence as the United States of America. Prerequisite: Sophomore standing. (Fall)

**HIST 3620 Early National America (3 units).** United States, 1789–1865. Origins of the young republic through the Civil War. European perils and American responses; nationalism; political philosophies and emergence of democratic politics; slavery; abolitionism, and sectional conflict. Prerequisite: Sophomore standing. (Fall, Spring)

**HIST 3630 America After the Civil War (3 units).** United States, 1865–1914. Reconstruction through Progressivism: development of a complex urban-industrial society; coming of world power. Prerequisite: Sophomore standing. (Fall)

**HIST 3640 Contemporary America (3 units).** United States since 1914. World War I to the present: America's role as a great power; problems of welfare capitalism. Prerequisite: Sophomore standing. (Fall, Spring)

**HIST 4041 Colonialism and the Modern State in Africa and Asia (3 units).** A study of the age of European colonialism; the era of the struggle for independence and the creation of modern states. Prerequisite: One year of college-level history or consent of instructor. (Fall, Spring)

**HIST 4210 European Intellectual History: Renaissance to the Present (3 units).** A study of the major ideologies in modern Europe and the means by which these ideologies were institutionalized. Prerequisite: One year of college-level history or

**HIST 3680 Women in American History (3 units).** American history with reference to female experiences, value systems, and ethnic diversity from the Colonial period to the present. Includes discussion of various theoretical approaches. (Same as WMST 3680). Prerequisite: Sophomore standing or consent of instructor.

**HIST 3710 Mexican American History (3 units).** The role of the Mexican-American in the nineteenth and twentieth centuries with emphasis on the modern period. Prerequisite: Sophomore standing.

**HIST 3730 Afro American History (3 units).** The development of the Black community in the United States; African origins, American slavery, reconstruction, and the foundations of the Black community in modern America. Prerequisite: Sophomore standing.

**HIST 3800 East Asia in Traditional Times (3 units).** Origins and development of the principal institution and cultural patterns of China, Japan, and Korea from earliest times to the nineteenth century. Prerequisite: Sophomore standing. (Fall)

**HIST 3810 East Asia in the Modern World (3 units).** Disintegration of the traditional civilizations of China, Japan, and Korea under the impact of the West, and the subsequent quest for reintegration and adjustment to the West since the nineteenth century. Prerequisite: Sophomore standing. (Spring)

**HIST 3860 Africa Before 1885 (3 units).** Historical development of social, political, and economic institutions of traditional African societies and relations with classical antiquity, Asia, Europe, and America. Prerequisite: Sophomore standing.

**HIST 3880 Contemporary Africa, 1945 to the Present (3 units).** The interplay of historical forces leading to the decolonization of Africa, the reorganization of African state systems, and Africa's participation in world affairs. Prerequisite: Sophomore standing. (Spring)

**HIST 3891 The Oriental Mind (3 units).** Historical survey of the major works of Chinese thought illustrating the main tenets and evolution of Confucianism, Taoism, Buddhism, and Maoism. (Formerly 3890) Prerequisite: Sophomore standing.

**HIST 3900 Islamic Civilization I - Origins to 1800 (3 units).** Islamic Middle East from Muhammad to 15th Century. Establishment of Islam, its political and social institutions; medieval empires, impact of the Crusades; Islamic society and the prelude of European colonialism. Prerequisite: Sophomore standing.

**HIST 3910 Islamic Civilization II - 1800 to the Present (3 units).** Decline of Islamic empires; Islam and nationalism; emergence of secular nationalism and independent statehood; Zionism and Arab nationalism; modern Islamic revivalism. Prerequisite: Sophomore standing.

**HIST 4000 Readings in History (1-2 units).** Reading in a selected historical era. Concurrent enrollment in a related history course is required. Papers on works read will be required. Prerequisite: Consent of instructor. (Fall, Spring)

**HIST 4680 The American Mind (3 units).** Impact of European experience and American environment; impact on the cultural milieu of industrialism, urbanism, and U.S. world involvement. Prerequisite: One year of college-level history or consent of instructor. (Fall)

**HIST 4690 Sport in America Since the Civil War (3 units).** An analysis of the development of sport and its impact in American society from the late nineteenth

**HIST 4990 Senior Thesis (4 units).** Methodology of history. Research techniques applied to investigation of original source material. May be repeated for a maximum of 8 units. Satisfies upper division writing proficiency requirement. Prerequisites: Senior standing, advanced course work in history, and consent of instructor. Under exceptional circumstances, Juniors may be admitted. (Fall, Spring)

### **Graduate**

**HIST 5000 International Relations Seminar (4 units).** Research on an international relations topic, using history or political science methodology. This course is primarily for the International Relations/History M.A. concentration, but is open to all qualified students and may be repeated with different instructors. (Spring)

**HIST 5910 Graduate Studies—American (4 units);** Reading of major secondary works or intensive original research in American history. Prerequisites: Advanced course work in American history as appropriate, and consent of instructor. (Fall, Spring)

**HIST 5920 Graduate Studies—European (4 units).** Reading of major secondary works or intensive original research in European history. Prerequisites: Advanced course work in European history as appropriate, and consent of instructor. (Fall, Spring)

**HIST 5930 The History of Historical Writing (4 units).** The problem of reproducing and analyzing the past as seen through the eyes of major historians and philosophers of history from earliest times to the present. Prerequisite: Advanced course work in history. (Fall)

**HIST 5950 Selected Topics in History (Topics to be specified in Class Schedule) (1–5 units).** Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**HIST 5980 Individual Study (1–4 units).** For qualified graduate students in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)

**HIST 5990 Thesis (3–6 units).** Thesis research. Prerequisite: Consent of instructor.



## University Honors Program

Office: Classroom Building 105, (209) 667-3095  
 Directors: Susan Middleton-Keirn and Terrie L. Short

For students of unusual curiosity, energy, and intelligence, the University provides an Honors Program. Its heart is an alternative General Education curriculum made up of a series of interdisciplinary seminars and sections of regular courses. The classes combine information and insight from various fields of study, and students take an active role in the shape and conduct of each one. The program also sponsors overnight backpacking expeditions, attendance at concerts, plays, and exhibits, and a week at the Shakespeare Festival in Ashland, Oregon. Students are encouraged to seek cultural and intellectual adventure.

Admission to the program is by invitation and is based on an assessment of a variety of factors such as grades, test scores, essays, and interviews. The program believes in taking risks and nurturing students who show exceptional promise. For further information call or write the Director.

### Honors Curriculum

Freshman Year:

HONS 1960 Honors Seminar I: Issues and Advocacy

HONS 1965 Honors Seminar II: Advocacy and Society

Sophomore & Junior Years:

HONS 2960 Honors Seminar III: Humanities

HONS 3960 Honors Seminar IV: Great Thinkers

HONS 3965 Honors Seminar V: Science, Technology and Human Values

HONS 4965 Honors Seminar VI: Self & Community

Senior Year:

HONS 4966 Honors Lecture Series

HONS 4995 Honors Research

***HONS 1960 Honors Seminar I: Issues and Advocacy (3 units).*** A single significant human problem that affects social policy, such as freedom, poverty, or war, will be studied in both its philosophical and historical contexts as well as in its contemporary manifestations. Intensive critical reading, writing, and speaking. Prerequisite: Membership in Honors Program. (Fall)

***HONS 1965 Honors Seminar II: Advocacy and Society (3 units).*** A continuation of MDIS 1960. Divergent philosophies on law and government will be considered. Contemporary policy implications will be examined using the case study method. Prerequisite: Membership in Honors Program. (Spring)

**HONS 2960 Honors Seminar III: Humanities (3 units).** The exploration of ways in which the arts reflect human experience and values. Prerequisite: Membership in Honors Program. (Fall)

**HONS 3960 Honors Seminar IV: Great Thinkers (3 units).** The examination of one or more thinkers with consideration of the age(s), representative works, philosophy/method, biography, and contemporary meanings. Representative thinkers include Plato, Sophocles, Augustine, Bach, Rousseau, Beethoven, Marx, Jung, Einstein. Prerequisite: Membership in Honors Program. (Spring)

**HONS 3965 Honors Seminar V: Science, Technology, and Human Values (3 units).** An investigation of the scientific bases of technological innovation, the effects of technology on individual and shared values, the ethical implications of advances in fields such as medicine and information science. Satisfies upper division writing proficiency requirement. Prerequisite: Membership in Honors Program. (Fall)

**HONS 4965 Honors Seminar VI: Self and Community (3 units).** Study of the relationships between ideas of, and consciousness about, the self on the one hand and the theories and realities of social community on the other. Satisfies upper division writing proficiency requirement. Prerequisite: Membership in Honors Program. (Spring)

**HONS 4966 Honors Lecture Series (3 units).** A series of lectures treating an issue of contemporary concern, the relationships between disciplinary approaches to a common topic, or the meaning of a great thinker's work for the modern world. May be repeated for a total of 12 units. Prerequisite: Membership in the Honors Program. (Fall, Spring)

**HONS 4995 Honors Research (3 units).** Directed research resulting in a project which describes methodology and results. Prerequisite: Membership in Honors Program. (Fall)





# Humanities

Office: Library Bldg 195, (209) 667-3361  
 Coordinator: Lola V. Johnson, Professor of  
 English and Humanities

Administered by the Department of English, "Humanities" courses are taught by faculty from several different departments on campus. These courses are broader in scope than those offered from within specific disciplines and are generally interdisciplinary in nature. The courses typically involve material from two or more of the following disciplines: Art, drama, literature, music, and philosophy.

## Course Descriptions

***HUM 2000 Introduction to the Humanities (3 units)***. Introduction to the Humanities is a course which explores the ways in which people of different cultures and times express human experience in their artistic, literary, musical, and philosophical works. One example is a course which chronologically surveys the development of Western humanities from the Renaissance to the present.

***HUM 3000 Exploration in Humanities (3 units)***. Explorations in Humanities is intended to give students an opportunity to explore in some depth one or two of the humanistic disciplines. Emphasized will be the nature and interrelationship of these disciplines, and independence in research in humanities.

***HUM 4980 Individual Study (1-4 units)***. For students capable of independent work and in need of advanced or specialized study. May be repeated for a total of six units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)



# Interpersonal Studies

## Interdisciplinary Minor

Office: Classroom Bldg 108, (209) 667-3371  
 Coordinator: Fred P. Hilpert (Communication Studies)

The Interpersonal Studies minor provides a course of study focused around human behavior in social systems such as the family, work group, or social relationship. The core program provides an understanding of the cultural, social, and psychological bases of the dyad and small group, and introduces the student to the theoretical and empirical approaches to the field. Electives are designed to provide depth and specialization in areas related to each student's major discipline.

A minor in interpersonal studies will be especially valuable to students interested in understanding how social factors influence individual or organizational behavior. Among the professional areas which draw most heavily on interpersonal expertise are counseling, human resource development, human services, management, organizational communication, and educational psychology.

### Requirements (18 units)

1. Complete the following required courses as listed below. (12 units):
  - a. *Foundations of Interpersonal Behavior* (6 units)
    - SPCH 3100 Advanced Interpersonal Communication, 3 units, *or*
    - PSYC 3310 Introduction to Social Psychology, 3 units;
  - b. *The Dyad* (3 units)
    - PSYC 4810 Social Psychology of Personal Relationships, 3 units; *or*
    - SPCH 4050 New Rules for Social Relationships, 3 units
  - c. *The Small Group* (3 units)
    - SPCH 4100 Group Communication, 3 units; *or*
    - SOCL 4020 Sociology of Small Group Dynamics, 3 units
2. Select two elective courses from the list below or from Winter Term courses on advisement of an Interpersonal Studies program coordinator (6 units):
  - ANTH 4165 The Family in Cross Cultural Perspective, 3 units
  - PSYC 3320 Introduction to Personality, 3 units
  - PSYC 3790 Introduction to Counseling Theory, 3 units
  - SOCL 3150 The Family, 3 units
  - SOCL 4520 Personality and Society, 3 units
  - SPCH 4060 Family Communication, 3 units
  - SPCH 4120 Advanced Persuasion and Social Influence, 3 units
  - SPCH 4150 Nonverbal Communication, 3 units
  - SPCH 4160 Intercultural Communication, 3 units



## Latin American Studies

### Degree Minor

Office: Classroom Building 230, (209) 667-3686

Director: Julia G. Cruz

The minor in Latin American Studies is a multi-disciplinary program seeking an in-depth knowledge of Latin American society. The program is designed to provide the students with an understanding of Latin America today through its language, culture, literature, and social, economic, and political development. The minor is useful to students planning careers in education, business, U.S. foreign policies affecting both the public and the private sectors; the foreign service; and other international organizations as well as for those who simply desire a better understanding of Latin America.

### Requirements (20 units)

1. Complete the following lower-division courses (8 units)\*
  - SPAN 1010 Elementary Spanish I, 4 units, *and*
  - SPAN 1020 Elementary Spanish II, 4 units, *or*
  - equivalent course work in Portuguese
2. Complete a minimum of one course each from areas *a* and *b* below (6–7 units):
  - a.* HIST 3510 Latin America in Colonial Times, 3 units
  - SPAN 3300 Literature and Civilization of Spanish America I, 3 units
  - b.* HIST 3520 Latin American States Since Independence, 3 units
  - PSCI 3410 Comparative Politics: Latin America, 4 units
  - SPAN 3310 Literature and Civilization of Spanish America II, 3 units
3. Select elective courses with the minor adviser's approval to complete the 20 required units. Courses should be selected with attention to gaining breadth of experience so the student will have taken courses from at least three disciplines in the minor. The elective courses may be additional ones taken from areas *a* and *b* above or other appropriate courses, such as:
  - ANTH 3320 Native Peoples of Latin America, 3 units
  - ETHS 2100 Contemporary Chicano Studies, 3 units
  - HIST 4500 History of Mexico, 3 units
  - PSCI 4680 U.S.-Latin American Relations, 4 units
  - SPAN 3970 Contemporary Latin American Prose in Translation, 3 units
  - SPAN 4600 Literatura Mexicana, 3 units

*Note: Twelve of the required 20 units must be upper-division; three of the required 12 upper-division units may be taken in courses numbered 4980, Individual Study. Where appropriate, and as approved by the minor adviser, courses offered during Winter term are also applicable.*

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\* A student possessing equivalent competency in the language may gain credit for this requirement by a challenge examination. The student wishing to challenge should consult the program director.



# Liberal Studies

Office: Classroom Bldg C116, (209) 667-3304  
Coordinator: Peter Finley

**Liberal Studies Advisers:** Liberal Studies is the only major on campus with its own GE package. Only a few faculty advisers have been trained in it. They are listed here:

- Anthropology ..... Kofi Akwabi-Ameyaw
- Applied Studies Track ..... Louis Feldman
- Arts:
  - Art, Drama, and Music ..... Richard Levering
  - Bilingual/Cross-Cultural .... Juan Flores, Leodoro Hernandez, William Ozuna, Joan Wink
- Biology:
  - Botany ..... Wayne Pierce
  - Zoology ..... Walter Tordoff
- Chemistry ..... Hobart Hamilton
- Child Development ..... Rita Asher, Victoria Cortez, Susan Goodwyn, Lin Myers, Gary Novak, Gina Pallotta
- Communication Studies ..... Kathy Shipley
- English ..... Anna Bolling, Douglas Taylor, Jack Williams
- Ethnic Studies ..... Richard Luevano
- Exceptional Children and Youth ..... Laura Collard, Jane Howard, Karen Sniezek, Cathy Watkins
- Geography ..... Ida Bowers
- Mathematics ..... Amberse Banks, Louis Feldman, Viji Sundar
- Philosophy ..... Jim Tuedio
- Physical Education ..... Martha Moren
- Physical Sciences and Geology ..... Marvin Johnson
- Psychology ..... Victoria Cortez, Susan Goodwyn, Lin Myers, Gary Novak, Gina Pallotta
- Social Sciences:
  - Economics, History, and Political Science ..... Laura Collard
  - Sociology ..... George Muedeking
  - Spanish ..... Robert Anderson
  - Stockton Program ..... Richard Levering
  - TESOL ..... Stephen Stryker
  - Undeclared ..... Peter Finley
  - Women's Studies ..... J.J. Hendricks

- ANTH 3301 The American Indian, 3 units
- ANTH 3320 Native Peoples of Latin America, 3 units
- GEOG 2420 Third World Regions, 3 units
- GEOG 3010 Cultural Geography, 3 units
- GEOG 3020 Human Ecology, 3 units
- GEOG 3510 Geography of North America, 3 units
- GEOG 3550 Geography of Europe, 3 units
- GEOG 3590 Geography of Asia, 3 units
- GEOG 4070 Agricultural Geography, 3 units
- SOCL 3430 Population, Resources and the American Future, 3 units

**5. Humans' Relationship to Humans: Human Organization (3 units)**

Any course with an asterisk will fulfill the multicultural requirement as well as A-5. (See Area E: Multicultural Requirement.)

- ANTH 3000 Anthropology and Modern Social Issues, 3 units
- ETHS 4200 The Minority Experience\*, 3 units
- ETHS/WMST 4350 Multiculturalism: Bias to Reality\*, 3 units
- GEOG 3300 Geography of Economic Activities, 3 units
- GEOG 4350 Urban Geography, 3 units
- PSCI 4330 Urban Politics, 3 units
- SOCL 3250 Social Issues in Cross-Cultural Perspectives\*, 3 units
- SOCL 4010 Race and Ethnic Relations\*, 3 units
- SOCL 4520 Personality and Society, 3 units
- SOCL 4800 Formal Organizations in Industrial Society, 3 units
- WMST 3550 Society and Gender, 3 units

**6. Global Perspectives (3 units)**

- ANTH 3010 The Great Discoveries, 3 units
- ANTH 3750 Human Evolution, 3 units
- ANTH 4211 The World in Change, 3 units
- HIST 1010 World Civilization I, 3 units
- HIST 1020 World Civilization II, 3 units
- HIST 3090 Contemporary World History, 3 units
- PSCI 3600 International Relations, 3 units
- SOCL 3200 Social Change, 3 units

**7. Area A Integrative Requirement**

One of the following upper division integrative courses must be completed for Area A. Note that some of these courses are listed in other sub-sections of Area A. Those courses may cross-count for both sub-sections. For example, SOCL 3250 may fulfill the Area A-7 integrative requirement and the A-5 requirement as well. Also remember that any course with an asterisk will fulfill the multicultural requirement, too. (See Area E: Multicultural Requirement.)

- ANTH 3000 Anthropology and Modern Social Issues, 3 units
- ECON 4010 Economic Thought, 3 units
- ETHS 4200 The Minority Experience\*, 3 units
- ETHS/WMST 4350 Multiculturalism: From Bias to Reality\*, 3 units
- GEOG 3020 Human Ecology, 3 units
- HIST 3400 The Great Teachings, 3 units
- PSCI 4630 International Politics of Industrial Societies, 3 units
- PSYC 4800 Origins of Human Consciousness, 3 units
- SOCL 3250 Social Issues in Cross-Cultural Perspective\*, 3 units

**B. Mathematics and Science (19-20 units minimum)****1. Mathematics (6 units)**

- MATH 1030 Elementary Foundations of Math I, 3 units  
 MATH 1040 Elementary Foundations of Math II, 3 units

**2. Biological Sciences (3-4 units) (Must include lab)**

- BIOL 1010 Principles of Biology, 3 units, *and*  
 BIOL 1020 Special Laboratory Studies, 1 unit  
 BOTY 1050 Introduction to Botany, 4 units (includes lab)  
 ZOOL 1050 Introduction to Zoology, 4 units (includes lab)

**3. Chemistry (3 units)**

- CHEM 1000 Chemistry in the Modern World, 3 units  
 CHEM 2500 The Chemistry of Photography, 3 units (includes lab)  
 CHEM 3070 The Chemicals in Your Life, 3 units  
 CHEM 3080 The Chemistry of Nuclear Energy, 3 units

**4. Physics (3 units)**

- PHYS 1500 Energy and Matter, 3 units  
 PHYS 3800 Fundamentals of Nuclear Energy, 3 units

**5. Earth and Space Science (3 units)**

- ASTR 2100 Descriptive Astronomy, 3 units  
 ASTR 3000 Contemporary Astronomy, 3 units  
 GEOL 2001 Regional Geology of California, 3 units  
 GEOL 2100 Principles of Geology, 3 units  
 GEOL 3000 Physical and Environmental Geology, 4 units  
 GEOL 3500 Earthquakes and Volcanoes, 3 units  
 PHSC 2000 Introduction to Earth Science, 3 units  
 PHSC 2100 Atmosphere, Weather, and Climate, 3 units

**6. Physical Sciences Lab (1 unit)**

- ASTR 2110 Descriptive Astronomy Lab, 1 unit  
 CHEM 1002 Chemistry in the Modern World Lab, 1 unit  
 CHEM 2002 Experiments for the Elementary School Classroom, 2 units  
 CHEM 2500 The Chemistry of Photography, 4 units (includes lab)  
 GEOL 2102 Principles of Geology Lab, 1 unit  
 PHYS 1501 Energy and Matter Lab, 1 unit

**7. Area B Integrative Requirement (3 units)**

One of the following upper-division integrative courses must be completed for Area B. Note that some integrative courses are listed in other sub-sections of Area B. Those courses may cross-count. For example, CHEM 3070 fulfills the Area B integrative requirement and the B-3 requirement as well.

- BIOL 3000 Frontiers in Biology, 3 units  
 CHEM 3070 The Chemicals in Your Life, 3 units  
 GEOL 3000 Physical and Environmental Geology, 4 units

**C. Arts-Humanities (19 units minimum)**

At least 3 units of course work in C-1, C-2, or C-3 must be completed in activity, performance, or studio courses. Those courses are marked by a double asterisk (\*\*).

**I. Art (3 units)**

- ART 1000 Introduction to Drawing\*\*, 3 units  
 ART 1010 Drawing I\*\*, 3 units  
 ART 1100 Two-Dimensional Design\*\*, 3 units

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- ART 1200 Three-Dimensional Design\*\*, 3 units
- ART 1340 Introduction to Ceramics\*\*, 3 units
- ART 2515 Art History Survey-Ancient, 3 units
- ART 2520 Art History Survey-Modern, 3 units
- ART 2525 Art History Survey-Non-Western, 3 units
- ART 2530 Art Appreciation, 3 units
- ART 4515-4565 Art History (by period), 3 units
- 2. Drama (3 units)**
  - DRAM 1010 Introduction to Theatre, 3 units
  - DRAM 1110 Playgoing, 3 units
  - DRAM 1500 Acting for Non-Drama Majors\*\*, 3 units
  - DRAM 2500 Acting I—Beginning Acting\*\*, 3 units
  - DRAM 3020 Children's Theatre, 3 units
  - DRAM 3510 Classical Theatre, 3 units
  - DRAM 3520 Romantic and Modern Theatre, 3 units
  - DRAM 3530 Contemporary Theatre, 3 units
  - DRAM 4020 Performance for Children\*\*, 3 units
  - DRAM 4550 American Theatre, 3 units
- 3. Music (3 units minimum)**
  - MUS 1000 Introduction to Music, 3 units
  - MUS 1190 Music Fundamentals, 3 units
  - MUS 1600 Basic Class Piano\*\*, 1 unit
  - MUS 1620 Basic Class Guitar\*\*, 1 unit
  - MUS 1630 Basic Class Voice\*\*, 1 unit
  - MUS 2000 Music of World Cultures, 3 units
  - MUS 2400 Orchestra\*\*, 1 unit
  - MUS 2420 Choral Society\*\*, 1 unit
  - MUS 3341 Music for Classroom Teachers\*\*, 2 units
  - MUS 3400 American Music, 3 units
  - MUS 3410 History of Jazz, 3 units
  - MUS 4400-4440 Orchestra/Chorale\*\*, 1 unit
- 4. Literature (3 units)**

Any literature course in any language. The following are examples from various departments:

  - ENGL 1010 Introduction to Literature, 3 units
  - ENGL 3920 Masterpieces of World Literature, 3 units
  - ENGL 4620 Children's Literature, 3 units
  - FREN 3330 Aspects of the French Novel, 3 units
  - GERM 3930 German Literature in Translation, 3 units
  - SPAN 4600 Literatura Mexicana, 3 units
- 5. Humanities and Philosophy (3 units)**
  - HUM 2000 Introduction to the Humanities, 3 units
  - HUM 3000 Explorations in Humanities, 3 units
  - PHIL 1010 Introduction to Philosophy, 3 units
  - PHIL 2100 Logic, 3 units
  - PHIL 2200 Ancient Philosophy, 3 units
  - PHIL 2230 Modern Philosophy, 3 units
  - PHIL 2400 Contemporary Moral Issues, 3 units
  - PHIL 3010 Classics of Western Philosophy, 3 units
  - PHIL 4401 Professional Ethics, 3 units

**6. Foreign Language (4 units)**

Any course that is the equivalent of or at a higher level than the courses listed below:

FLAN 1010 through 1099

FREN 1010 Elementary French I, 4 units

GERM 1010 Elementary German I, 4 units

SPAN 1010 Elementary Spanish I, 4 units

Sign Languages

**7. Area C Integrative Requirement (3–6 units)**

See Area C-D Integrative Requirement below.

**D. Communication Skills (18 units minimum)****1. Speech (6 units)****a. Oral Communication Practice**

SPCH 2000 Public Speaking, 3 units

SPCH 2110 Group Discussion Processes, 3 units

SPCH 2400 Oral Interpretation, 3 units

SPCH 3400 Oral Interpretation of Children's Literature, 3 units

**b. Oral Communication Theory**

SPCH 2011 Approaches to Human Communication, 3 units

SPCH 3010 Language and Speech Development, 3 units

SPCH 4160 Intercultural Communication\*, 3 units

**2. English Composition (9 units)****a. Freshman Composition**

ENGL 1001 Freshman Composition, 3 units

**b. Inquiry**

ENGL 2000 Critical Inquiry, 3 units

PHIL 2000 Philosophical Inquiry, 3 units

**c. Upper Division Writing Competency**

ENGL 3000 Junior Composition, 3 units

ENGL 3007 Business and Technical Communication, 3 units

ENGL 3008 Writing with a Computer, 3 units

ENGL 3009 Applied Writing, 3 units

Any Writing Proficiency (WP) course.

**3. Computer Science (3 units)**

CS 1000 Introduction to Computers, 3 units

CS 4000 Personal Computing, 3 units

**4. Area C and D Integrative**

One of the following upper division integrative courses must be completed for the combined Areas C and D. Note that some of the integrative courses may cross-count. For example, ENGL 3920 fulfills the Area C-D integrative requirement and the C-4 requirement as well. Also remember that any course with an asterisk will fulfill the Multicultural requirement, too. (See Area F: Multicultural Requirement.)

ENGL 3920 Masterpieces of World Literature, 3 units

HUM 3000 Exploration in Humanities, 3 units

SPCH 4160 Intercultural Communication\*, 3 units



### E. Multicultural Requirement

One of the following courses from Areas A through D must be taken. They have been given an asterisk where listed for your convenience.

ETHS 4200	The Minority Experience, 3 units
ETHS/WMST 4350	Multiculturalism: From Bias to Reality, 3 units
SOCL 3250	Social Issues in Cross-Cultural Perspective, 3 units
SOCL 4010	Race and Ethnic Relations, 3 units
SPCH 4160	Intercultural Communication, 3 units

### F. Multiple Subjects Credential/NTE

#### Waiver Program Requirements (13 units)

PSYC 3140	Human Development I: Childhood, 3 units
PHED 3400	Elementary Physical Education, 3 units
LIBS 1000	Introduction to Liberal Studies, 3 units
LIBS 4960	Senior Seminar, 2 units
EDUC 3500	Early Field Experience, 2 units

### G. Concentrations

Concentrations must total 18 units minimum. (However, all require at least 21 at this time, except English.) At least 12 units minimum must be upper-division. However, all require at least 15 units at this time, except English and Music.) Cross-counting is allowed. Select one from the following:

Anthropology	Art	Bilingual/Cross Cultural
Biological Sciences	Chemistry	Child Development
Communication Studies	Drama	Economics
English	Ethnic Studies	Exceptional Children and Youth
Geography	History	Mathematics
Modern Languages	Music	Philosophy
Physical Education	Physical Sciences	Physics
Political Science	Psychology	Russian-Soviet Studies
Sociology	TESOL	Women's Studies

*Note: These concentrations are detailed in this catalog according to department. (See the Index.)*

#### Course Description

##### Lower Division

**LIBS 1000 Introduction to Liberal Studies (3 units).** An introduction to the Liberal Studies major with an attempt to maximize the university experience. Emphasis is on self-assessment and study skills. Topics include characteristics of a well-educated person, understanding multicultural diversity, career alternatives, and contemporary issues. Oral and written presentations are required.

**LIBS 4960 Liberal Studies Seminar (1-2 units).** An integrative course in which students will reflect on the nature and extent of their liberal arts education. Students will be required to demonstrate both their ability to integrate studies across disciplines as well as their competencies within those disciplines. Prerequisite: Consent of instructor.

## Applied Studies Track

**Office:** Science Building 249, (209) 667-3461  
**Coordinator:** Louis Feldman

The Applied Studies program is preparation for entry or advancement in careers that do not correspond to other academic programs. It is a program designed for persons returning to college part-time evenings and/or weekends. Its purpose is to complement their life experiences with academic work which will make them more valuable in a variety of careers. **It does not act as an approved waiver program into the Multiple Subjects Credential Program.**

The rapid and significant change that has become a preeminent feature of our civilization creates a need for a new type of professional, one well qualified to deal with both the opportunities and the problems constantly arising from the state of change. The Applied Studies program educates this new type of professional by complementing life experience with academic study focusing on the following: Contemporary and Future Trends; The Major Trends in American Civilization, Economic Trends, Trends in Science and Technology; Computer Studies; and the Modern Organization.

Most upper-division courses for the Applied Studies track in the Liberal Studies major will be offered evenings on a three-year cycle. Persons with 56 or more transferable units of credit should be able to complete all requirements for a baccalaureate degree in any three consecutive years.

Course prerequisites assist students in selecting their course work. Those who do not have the formal prerequisites for a course but feel they may be qualified for other reasons must contact the course instructor.

*Note: Persons whose primary interest is business administration, computer information systems, computer science, public administration, or a teaching credential also should consult an adviser in that area.*

## Requirements

1. Liberal Studies major with the Applied Studies track including a minimum of 18 units in each of the four subject areas 1, 2, 3, and 4 with a maximum of 40 units in any one area;
2. A physical education activity course (for students entering before their twenty-fifth birthday);
3. The Applied Studies concentration;
4. Electives to bring the student's total number of units to at least 124 and the total number of upper-division units to at least 40, and to include at least 9 upper-division units which satisfy the University's upper-division General Education requirements (see note below);
5. A program of study approved by the student's Applied Studies adviser.

*Note: Courses applicable to the University's upper-division General Education requirements are denoted throughout by the dagger symbol (†).*

## Subject Matter Areas

### Area 1. Social Sciences (18 units)

- a. Complete one of the following courses in United States History:
 

HIST 2600	Problems in U.S. History, 3 units
HIST 3610	Colonial America, 3 units

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- HIST 3620 Early National America, 3 units
- HIST 3630 America After the Civil War, 3 units
- HIST 3640 Contemporary America, 3 units
- HIST 4620 America: The Rise of a Technological Society, 3 units

- b.* Complete one course in the United States Constitution and California state and local government.
- c.* Complete one of the following introductory economics courses (3 units):
  - ECON 2500 Principles of Economics I, 3 units
  - ECON 2510 Principles of Economics II, 3 units
- d.* Complete two of the following courses concerned with differing world trends. Each must be selected from a different discipline:
  - ANTH 3900 Women: A Cross-Cultural Perspective, 3 units
  - ANTH 4211 The World in Change, 3 units
  - ETHS 4200 The Minority Experience, 3 units †
  - GEOG 3020 Human Ecology, 3 units †
  - GEOG 3300 Geography of Economic Activities, 3 units
  - GEOG 4070 Agricultural Geography, 4 units
  - PSCI 3600 International Relations, 4 units
  - PSCI 4350 Government, Business and the Economy, 3 units
  - PSCI 4630 International Politics of Industrial Societies, 3 units
  - PSYC 3660 Psychology of Women, 3 units
  - SOCL 3200 Social Change, 3 units
- e.* Elective courses in anthropology, economics, ethnic studies, geography, history, political science, psychology, or sociology (normally one course)

**Area 2. Mathematics/Science (18 units)**

- a.* Complete one course in mathematics.
- b.* Complete one course in biology, botany, entomology, microbiology, or zoology.
- c.* Complete one course in astronomy, chemistry, geology, physical science, or physics.
- d.* Complete one science laboratory section or course.
- e.* Complete one of the following courses concerned with the environment:
  - BIOL 2650 Environmental Biology, 3 units
  - GEOL 3000 Physical and Environmental Geology, 4 units †
  - PHSC 1300 Environmental Pollution, 3 units
  - PHSC 3000 Energy, Ecology, and Environment, 3 units
  - PHSC 3500 Solar and Other Alternative Energies, 3 units †
- f.* Elective courses in astronomy, biology, botany, chemistry, computer science, entomology, geology, mathematics, microbiology, natural science, physical sciences, physics, or zoology (normally two courses).

**Area 3. Arts/Humanities (18 units)**

- a.* Complete one course in literature, including foreign literature and philosophy.
- b.* Complete one course in art, drama, or music.
- c.* Complete two of the following courses, selected from different disciplines, which give insight into today's technological society from the viewpoint of the arts and humanities.
  - ART 4550 Contemporary Art, 3 units
  - ART 4555 American Art, 3 units †
  - DRAM 3530 Modern Theatre, 3 units

- DRAM 4550 American Theatre, 3 units †
- MUS 3400 American Music, 3 units †
- PHIL 4260 Twentieth Century Philosophy, 3 units
- PHIL 4401 Professional Ethics, 3 units †

d. Elective courses in art, drama, French, German, music, philosophy, or Spanish (normally three courses).

**Area 4. Communication (18 units)**

- a. Complete one of the following courses:
  - ENGL 1000 Critical Reading and Writing, 3 units *or*
  - ENGL 1001 Freshman Composition, 3 units
- b. Complete one of the following courses:
  - ENGL 2000 Critical Inquiry, 3 units, *or*
  - PHIL 2000 Philosophical Inquiry, 3 units.
- c. Complete one of the following courses:
  - ENGL 3000 Junior Composition, 3 units *or*
  - ENGL 3007 Business and Technical Communication, 3 units
- d. Complete one of the following courses concerned with modern media:
  - ENGL 3500–3520 Studies in Film, 3–4 units
  - JOUR 3030 Freedom of Speech and Press: Contemporary Issues, 3 units
  - SPCH 2200 Introduction to Mass Media, 3 units
  - SPCH 4200 Mass Communication Perspectives, 3 units
- e. Complete an introductory course in public speaking or interpersonal communication *or*
  - SPCH 2011 Approaches to Human Communication, 3 units
- f. Complete one of the following:
  - SPCH 3100 Advanced Interpersonal Communication, 3 units †
  - SPCH 3120 Management Communication, 3 units
  - SPCH 4100 Group Communication, 3 units
  - SPCH 4120 Persuasion and Social Influence, 3 units
- g. Elective courses in English, journalism, or speech.

**Area 5. Physical Education**

Students entering CSU Stanislaus before their twenty-fifth birthday must complete a physical education activity course.

**Area 6. Concentration: Applied Studies (24 units)**

- a. *Contemporary and Future Trends*
  - i. *Major Trends in American Civilization—one of the following courses:*
    - ANTH 3000 Anthropology and Modern Social Issues, 3 units †
    - ANTH 4140 Urban Anthropology, 3 units
    - ANTH 4211 The World in Change, 3 units
    - GEOG 4350 Urban Geography, 4 units
    - HIST 3090 Contemporary World History, 3 units †
    - HIST 3640 Contemporary America, 3 units
    - HIST 4620 America: The Rise of the Technological Society, 3 units
    - PSCI 4330 Urban Politics, 4 units
    - SOCL 3430 Population, Resources and the American Future, 3 units
    - WMST 3000 Women's Studies Colloquium, 3 units
  - ii. *Economic Trends—one of the following courses:*
    - ACC 3005 Personal Financial Planning, 3 units †

- ECON 3150 National Income Analysis, 3 units
- ECON 3320 Money and Banking, 3 units
- ECON 4050 Comparative Economic Systems, 3 units
- ECON 4100 Labor Economics, 3 units
- ECON 4415 International Economics, 3 units
- ECON 4500 Economics of Investment, 4 units †
- ECON 4540 Public Finance and Fiscal Policy, 3 units
- ECON 4600 Urban Economics, 3 units
- FIN 3210 Investment Management, 3 units †

*iii. Trends in Science and Technology—one of the following courses:*

- BIOL 3000 Frontiers in Biology, 3 units †
- CHEM 3070 The Chemicals in Your Life, 3 units †
- CHEM 3080 The Chemistry of Nuclear Energy, 3 units †
- MATH 3350 Applied Mathematical Models, 3 units †
- PHYS 3800 Fundamentals of Nuclear Energy, 3 units †
- PHYS 4930 Lasers and Holography, 4 units

**b. Computer Studies**

Complete 6 units from the following courses:

- CIS 2000 Introduction to Business Computer Systems, 3 units
- CIS 2010 COBOL Programming and Business Information Systems, 3 units
- CIS 3730 Structured Programming, 3 units
- CIS 4720 Data Base Management Systems, 3 units
- CIS 4770 Systems Analysis and Design, 3 units
- CS 1000 Introduction to Computers, 3 units
- CS 1200–1350 Programming Language Laboratory, 1–3 units
- CS 1500 Computer Programming I, 3 units
- CS 2500 Computer Programming II, 3 units
- CS 2700 Assembly Language and Computer Architecture, 3 units
- CS 3050 File Processing, 3 units
- CS 3100 Data Structures and Algorithms, 3 units
- CS 3200 Computer Simulation Techniques, 3 units
- CS 3600 Computer Graphics I, 3 units
- CS 4000 Personal Computing, 3 units †

**c. The Modern Organization**

Complete three courses from the following with at least 3 units in each of two or more disciplines.

- MGT 3310 Management Theory and Practice, 3 units
- MGT 4000 Organization and Environment, 3 units
- MGT 4360 Organizational Behavior, 3 units
- PSCI 3300 Introduction to Public Administration, 3 units
- PSCI 4300 Organization Theory, 4 units
- PSCI 4315 Public Policy Making, 3 units
- PSYC 4821 Group Dynamics Workshop, 1 unit
- SOCL 4800 Formal Organizations in Modern Society, 3 units
- SPCH 4110 Organizational Communication, 3 units

Some of the courses listed as satisfying requirements for the concentration are also listed as satisfying requirements in Areas 1, 2, 3, and 4; however, no more than 9 units may be used to satisfy concentration requirements and requirements in Areas 1, 2, 3, and 4 simultaneously.

## Area 7. Electives

Electives to bring the student's total number of units to at least 124 and total number of upper-division units to 40. These electives should be selected to complement the courses selected to fulfill the requirements for the concentration. Students should give serious consideration to any electives recommended for this program. These include all courses listed above as well as other recommended electives.

*Note: The lists of courses for the various requirements are not exhaustive. Courses not on these lists—including courses offered during Winter Term, approved selected topics courses, etc.—may be used to fulfill these requirements with the consent of the student's Applied Studies adviser.*

## Bilingual/Cross Cultural Concentration

**Office:** Classroom Building 125, (209) 667-3277

**Coordinator:** Leodoro Hernandez

The Spanish/English Bilingual/Cross-Cultural track provides the academic prerequisite for students who are planning to pursue bilingual/cross-cultural credentials to teach in elementary schools. It is also designed to give graduates the language teaching skills and cultural background to teach limited- and non-English-speaking students.

## Requirements

1. Complete the Liberal Studies Subject Matter Area Requirements A, B, C, and D, listed above. Waiver students must complete Area G also. Take the following courses in place of Subject Matter Area C5:

SPAN 2011, 2015 Spanish for Native Speakers I & II, 6 units\*

SPAN 3010, 3020 Advanced Spanish I & II, 6 units\*

2. Complete the Bilingual/Cross-Cultural Concentration listed below (20 units).

*Note: The courses listed in sections 1 and 2 below can fulfill both Liberal Studies Subject Matter Area Requirements and Bilingual/Cross-Cultural Concentration Requirements. Cross-counting of courses is limited to 24 units in any one area if the courses are listed below. Select courses with adviser's approval.*

\* SPAN 1010 and 1020 are prerequisites to these courses. See the "Modern Languages" section of this catalog for additional information or alternative courses. Proficiency examinations are provided by the Department of Modern Languages.

## The Concentration (20 units)

1. **Cultural Component** (9–12 units)
  - a. ENGL 4800 Second Language Acquisition, 3 units
  - b. SPAN 3300 Literature & Civilization of Spanish America I, 3 units
  - c. Electives selected from courses related to the Indochinese, Portuguese, or Hispanic minority experience taken from the English, geography, political science, sociology, or Spanish departments, 3–6 units

**2. Cross-Cultural Component (9–12 units)**

- a. ETHS 4200 The Minority Experience, 3 units
- b. EDBL 4200 Teaching the Culturally Different, 3 units
- c. Electives selected from courses related to the Indochinese, Portuguese, Hispanic, or Women in America minority experience taken from the anthropology, education, ethnic studies, history, or multidisciplinary studies departments, 3–6 units

*Note: Of the 20 unit total, a minimum of 15 must be upper-division.*

**Exceptional Children and Youth Concentration**

**Office:** Classroom Building 100A, 677-3364

**Coordinators:** Jane S. Howard/Karen M. Sniezek

The Liberal Studies concentration in Exceptional Children and Youth was developed primarily for students interested in teaching the learning and severely handicapped at the elementary and secondary levels. Because all undergraduates may find the program valuable in better understanding exceptionality, students may choose it as a minor.

In order to apply to the Special Education Specialist Credential Program, students must possess a multiple subjects credential or single subject credential. (See the "School of Education, Teacher Education" section of this catalog for descriptions of these programs.) However, careful selection of concentration or minor electives permits students to complete more of the generic course work for the special education specialist credential. (See the "School of Education" section of this catalog for descriptions of Learning and Severely Handicapped specialization program requirements.)

**Requirements (21 units minimum)**

1. Complete a minimum of 21 units including the 15 upper-division units listed below. Required courses taken to satisfy the Area A through D of the Liberal Studies major may be double counted for the concentration.

*Note: Students should maintain contact with the program coordinators to be apprised of any course work changes in the credential program.*

*Note: The 15 required upper-division units common to both minor and concentration satisfy some of the generic requirements for state teacher certification in exceptionality.*

2. Complete the prerequisite course:
  - PSYC 2010 Introduction to Psychology, 3 units
3. Complete the following required classes (15 units):
  - EDSE 4310 Introduction to Special Education Programs, 3 units
  - EDSE 4330 Assessment and Instruction of Language for Exceptional Pupils, 3 units
  - PSYC 3140 Human Development I: Childhood, 3 units
  - PSYC 4150 Learning Disabilities, 3 units
  - PSYC 4560 Theory of Direct Instruction, 3 units

4. Select one of the following elective classes to complete the concentration (3 units)
- |           |  |
|-----------|--|
| SPCH 3010 | Language and Speech Development, 3 units                                 |
| PSYC 4130 | Psychological Disorders of Children, 3 units                             |
| PSYC 4550 | Practicum in Direct Instruction, 3 units                                 |
| PSYC 4750 | Applied Behavior Analysis for Severely and Learning Handicapped, 3 units |
| PSYC 4790 | Behavioral Engineering, 3 units  |

### Russian and East European Studies Concentration

**Office:** Classroom Building 101, (209) 667-3181

**Coordinator:** H. Dieter Renning

### Requirements (20 units minimum)

1. Complete University requirements for a Bachelor of Arts degree (51 units minimum).
2. Complete the requirements for the Liberal Studies major.
3. Complete the concentration of not less than 20 units.

### The Concentration

1. Select 12 to 16 units from the following list, to include at least one course from each of three different disciplines:

ECON 4420	The Economy of Russia, 3 units
GEOG 3570	Geography of Russia and East Europe, 3 units
HIST 4420	Russia to 1917, 3 units
HIST 4430	Twentieth-Century Russia, 3 units
PSCI 3055	Marx on the Human Condition, 3 units
PSCI 3450	Comparative Politics: Eastern Europe, 3 units

*Note: At its discretion, the Russian-East European Studies Committee may designate additional courses—courses offered during Winter Term or regular terms—that might apply toward this list. These could be courses from the above disciplines or from other disciplines.*

2. Complete the concentration as follows:
  - a. Select four units in the form of two 2-unit courses in Individual Study (ECON 4980, ENGL 4980, GEOG 4980, HIST 4980, PSCI 4980, or other appropriate disciplines) which delve more deeply into one or more aspects of previous course work taken in the concentration; *and/or*
  - b. Select four units of MDIS 4980, Russian-East European Studies Research Paper, in which the student will write an interdisciplinary research paper. The student will write the paper under the supervision of appropriate instructors from at least two academic disciplines.





## Marine Sciences

Office: Science Building 103, (209) 667-3476  
 Coordinator: Pamela Roe

The California State University operates the Moss Landing Marine Laboratories at Moss Landing, California. This marine facility functions as a seaside extension of the campuses of six cooperating State Universities (Stanislaus, Fresno, Hayward, Sacramento, San Francisco, and San José) and offers course work in marine biology, geology, oceanography, and other marine sciences. The curriculum is designed to fulfill major requirements for qualified upper-division and graduate students. Such students can plan their academic schedules to provide for one or more terms at the Moss Landing Marine Laboratories and will be considered as in-residence at California State University, Stanislaus.

Interested students should make early application because enrollment is limited. Consult advisers in the Department of Biological Sciences or Department of Physical Sciences for further details or write to the Director, Moss Landing Marine Laboratories, P.O. Box 450, Moss Landing, California 95039. Consult the office of the Department of Biological Sciences for information on the Master of Science in Marine Science (Marine Biology) degree.

### Master of Science in Marine Sciences

This degree program, to be offered as an interdepartmental degree on each campus in appropriate science departments (biology, geology, chemistry) in cooperation with Moss Landing Marine Laboratories (MLML), provides the opportunity for students to acquire a practical and theoretical education in the marine sciences to prepare them for careers as marine specialists, scientists and teachers. The program at Moss Landing provides extensive field and laboratory work for advanced study in the marine sciences which cannot be duplicated on any one individual Cal State campus.

#### Admission to the Program

The Master of Science in Marine Sciences program is administered through MLML and an academic department from a consortium campus (biological science, geology, natural science, or other department) depending on the choice of the student. The prospective student must meet the entrance requirements for the department and will be accepted into unclassified or conditionally classified graduate status by normal procedures at that campus. The student will become classified upon completion of MLML's requirements.

Admission to the MS Marine Sciences program through CSU, Stanislaus requires application both to the University and to the Department of Biological Sciences. Completed applications must be received by January for the following fall semester or August for the following spring semester. Application materials for the

Department of Biological Sciences must include a copy of transcripts of all undergraduate courses with summary of overall GPA and GPA in upper-division biological sciences courses; a statement of student's area(s) of research interests, a summary of all research experiences, scores on the GRE exam (both aptitude and Biology), and three letters of recommendation. All application materials should be sent to the Office of Graduate Studies, Requirements for Admission to the MS Marine Science program via CSU, Stanislaus are: A bachelor's degree in one of the biological sciences with a program comparable to the biology program at CSUS from an accredited college or university, an overall GPA of 3.0, statement of research interests consistent with interests and facilities of Moss Landing Marine Laboratories faculty, and approval for admission with conditional classified status by the Department of Biological Sciences, CSUS, and by Moss Landing Marine Laboratories. For more detailed information, contact the Office of Graduate Studies.

### MLML Classification in the Program

A conditionally classified student may become fully classified in the marine science program as set forth in the following steps:

1. Obtain an adviser at MLML and in the department of his/her choice at the home campus. Each new student in the Master's program at MLML will be assigned an adviser who may or may not be the final thesis adviser.
2. Make up any course work deficiencies in either the home campus department (see department regulations) and/or MLML. MSCI 3040 Quantitative Marine Science, and three of the following five courses are prerequisites for classified graduate standing: MSCI 3030 Marine Ecology, MSCI 3410 Geological Oceanography, MSCI 3420 Physical Oceanography, MSCI 3430 Chemical Oceanography, and MSCI 3440 Biological Oceanography. These courses may be waived by the graduate committee upon certification that equivalent courses have been completed satisfactorily. MSCI 3040, Quantitative Marine Science, cannot be counted towards the 30-unit degree requirement.
3. Students who do not receive a grade of "B" or better in the courses described in (2) above taken at MLML, or who wish to substitute equivalent courses taken elsewhere regardless of the grade(s) received, must pass a written qualifying examination given by the faculty at MLML. The examination will substitute for any equivalent examination given by home campus departments. There is no official time limit, but the exam should be taken as soon as possible; only a limited number of units taken while in unclassified status can be counted towards the degree. The exam may be repeated once, and must be passed before the student can be classified. The examination will consist of a choice of five out of six questions designed to test knowledge of the concepts and principles of oceanography, marine ecology, and statistics as covered in the courses listed under (2) above. It will be used to evaluate the student's background in these subject areas and the ability to write well and formulate answers logically. Each answer will be graded "pass" or "fail" by two faculty members (a third faculty member will resolve disagreements) on accuracy, content, and ability to clearly communicate. For a reading list covering the required material and further details concerning the exam, see MLML's Assistant to the Director.

## Advancement to Candidacy

In order to be advanced to candidacy, the student must have

1. attained classified standing,
2. selected a thesis problem and selected a graduate committee, and
3. completed 1 unit of MSCI 5980, Research in Marine Science, in which a thesis proposal has been written and approved by the thesis committee both for its content and the graduate English competency requirement.

The thesis committee will be composed of at least three members, including one faculty member from MLML (who is ordinarily the thesis adviser) and, at the discretion of the home campus, a representative from that campus. The other member or members of the thesis committee may also be from the home campus, or elsewhere, with the approval of the thesis adviser.

## Requirements (30 units)

A student becomes eligible for the Master's degree in Marine Science after the following requirements have been satisfied:

1. Been advanced to candidacy
2. Satisfied MLML requirements for the degree
3. Completed the following curricular requirements for a minimum total of 30 units:
  - a. A minimum total of 15 units of 5000-level courses (including two units of MSCI 5850, MSCI 5860 or MSCI 5870, and 4 units of MSCI 5990).
  - b. Fifteen units or more of elective courses in marine sciences (courses numbered 3000 or above). The following list of elective courses can be used to satisfy major requirements:

- MSCI 3050 Marine Science Diving, 3 units
- MSCI 3110 Introduction to Marine Animal Behavior, 4 units
- MSCI 3120 Marine Birds and Mammals, 4 units
- MSCI 3130 Marine Ichthyology, 4 units
- MSCI 3240 Marine Invertebrate Zoology I, 4 units
- MSCI 3250 Marine Invertebrate Zoology II, 3 units
- MSCI 3310 Marine Botany, 4 units
- MSCI 3610 Marine Fisheries, 4 units
- MSCI 3730 Topics in Marine Biology, 1-4 units
- MSCI 3740 Topics in Oceanography, 1-4 units
- MSCI 3750 Topics in Marine Science, 4 units
- MSCI 3770 Microscopic Techniques, 3 units
- MSCI 5020 Marine Instrumental Analysis, 4 units
- MSCI 5040 Sampling and Experimental Design, 4 units
- MSCI 5110 Ecology of Marine Birds and Mammals, 4 units
- MSCI 5120 Advanced Topics in Marine Vertebrates, 1-4 units
- MSCI 5210 Advanced Topics in Marine Invertebrates, 1-4 units
- MSCI 5220 Biology of the Mollusca, 4 units
- MSCI 5310 Biology of Seaweeds, 4 units
- MSCI 5330 Advanced Topics in Marine Ecology, 1-4 units
- MSCI 5340 Advanced Biological Oceanography, 4 units
- MSCI 5420 Plate Tectonics, 3 units
- MSCI 5440 Paleocceanography, 4 units
- MSCI 5450 Deep Sea Sedimentation, 4 units

- MSCI 5510 Marine Geochemistry, 4 units
- MSCI 5610 Ocean Circulation and Mixing, 4 units
- MSCI 5620 Satellite Oceanography, 4 units
- MSCI 5630 Applications of Computers in Oceanography, 4 units
- MSCI 5710 Population Biology, 3 units
- MSCI 5720 Subtidal Ecology, 4 units
- MSCI 5740 Advanced Topics in Oceanography, 1-4 units
- MSCI 5804 Scientific Writing, 2 units
- MSCI 5850 Graduate Seminar in Marine Biology, 2 units
- MSCI 5860 Graduate Seminar in Marine Geology, 2 units
- MSCI 5870 Graduate Seminar in Oceanography, 2 units
- MSCI 5980 Research in Marine Sciences, 1-4 units

*Note:* Other electives, including courses from the home campus departments, may be included in consultation with the graduate committee. The combination of required units (seminar and thesis and elective) must total at least 30 semester units. No more than 6 units may be graded CR/NC.

4. Submitted a thesis approved by the graduate committee. The thesis must conform to the rules set forth by the consortium campus' graduate office.
5. Given an oral thesis defense to include an open seminar presentation of the thesis material and a defense before the graduate committee.

### Schedule of Core Courses

(Quantitative Marine Science, Physical Oceanography, Chemical Oceanography, Geological Oceanography, Biological Oceanography, and Marine Ecology)

Fall	Spring
MSCI 3030 Marine Ecology	MSCI 3430 Chemical Oceanography
MSCI 3040 Quantitative Marine Science	MSCI 3440 Biological Oceanography
MSCI 3410 Geological Oceanography	
MSCI 3420 Physical Oceanography	

### Course Descriptions

#### *Upper Division*

**MSCI 3030 Marine Ecology (4 units).** A field-oriented introduction to the interrelationships between marine and estuarine organisms and their environment with emphasis on quantitative data collection and analysis. (Lecture, 2 hours; lab or field, 6 hours) Prerequisites: Ecology, statistics (or concurrent registration in MSCI 3040), or consent of instructor. (MLML 103) (Fall and Spring)

**MSCI 3040 Quantitative Marine Science (4 units).** The mathematical methods for the analysis of biological, chemical, and physical data from the marine environment; experimental design, parametric, and non-parametric statistics. (Lecture, 3 hours; lab or field, 3 hours) Prerequisite: College mathematics. (MLM 104) (Fall)

**MSCI 3050 Marine Science Diving (3 units).** Skin and scuba diving course; pool training culminates in five ocean dives. Thorough background in diving physics and physiology. Successful completion gives NAUI, YMCA, L.A. County or MLML certification. (No credit toward science major) (Lecture, 1 hour; lab or field, 6 hours) Prerequisites: Upper division science major status, thorough physical examination, ability to pass swimming test. (MLM 105) (Fall, Spring)

**MSCI 3110 Introduction to Marine Animal Behavior (4 units).** Basic theoretical concepts of animal behavior, stressing the causation, development, and evolution of behavior. Emphasis is on the marine environment. (Lecture, 3 hours; lab or field, 3 hours) Prerequisites: MSCI 3030 or consent of instructor. (MLML 110) (Fall)

**MSCI 3120 Marine Birds and Mammals (4 units).** Systematics, morphology, ecology, and biology of marine birds and mammals. (Lecture, 1 hour; lab or field, 6 hours) Prerequisites: Upper-division college vertebrate zoology. MSCI 3030 recommended. (MLML 112) (Spring)

**MSCI 3130 Marine Ichthyology (4 units).** A description of the taxonomy, and ecology of marine fishes. Both field and laboratory work concentrate on the structure, function, and habits of marine fishes and the ecological interaction of these fishes with their biotic, and abiotic surrounding. (Lecture, 2 hours; lab or field, 6 hours) Prerequisites: College zoology or equivalent. MSCI 3030 recommended. (MLML 113) (Spring)

**MSCI 3240 Marine Invertebrate Zoology I (4 units).** A field-oriented introduction to the structure, systematics, evolution, and life histories of the major marine invertebrate phyla. (Lecture, 2 hours; lab or field, 6 hours) Prerequisites: College zoology or consent of instructor; MSCI 3030 recommended. (MLML 124) (Fall)

**MSCI 3250 Marine Invertebrate Zoology II (3 units).** Field-oriented introduction to the structure, systematics, evolution, and life histories of the minor marine invertebrate phyla. (Lecture, 1 hour; lab or field, 6 hours) Prerequisites: College zoology or consent of instructor; MSCI 3030 and 3240 recommended. (MLML 125) (Spring)

**MSCI 3310 Marine Botany (4 units).** Introduction to the plants of the sea, marshes, and dunes, with emphasis on the morphology, taxonomy, and natural history of seaweeds and vascular plants. (Lecture 2 hours; lab or field, 6 hours) Prerequisites: MSCI 3030 recommended. (MLML 131) (Fall)

**MSCI 3410 Geological Oceanography (4 units).** A study of the structures, physiography, and sediments of the sea bottom and shoreline. (Lecture, 2 hours; lab or field, 6 hours) Prerequisites: MSCI 3420 or 3430 (concurrent registration satisfactory). (MLML 141) (Fall)

**MSCI 3420 Physical Oceanography (4 units).** An introduction to the nature and causes of various oceanic motions including currents, waves, tides, and mixing. Also includes the physical properties of seawater, including transmission of sound and light. Does not require calculus. (Lecture 3 hours; laboratory 3 hours) Prerequisites: college algebra; college physics recommended. (MLML 142) (Fall)

**MSCI 3430 Chemical Oceanography (4 units).** An introduction to the theoretical and practical aspects of the chemistry of the oceans, including major salts, dissolved gases, nutrient ions, carbonate system, transient tracers, and shipboard sampling techniques. (Lecture 2 hours; laboratory 6 hours) Prerequisites: One year of college chemistry. (MLML 143) (Spring)

**MSCI 3440 Biological Oceanography (4 units).** The ocean as an ecological system. Emphasis will be on the complexity of organismal-environmental interaction of the plankton, the transfer of organic matter between trophic levels and nutrient cycles. Laboratory sessions will include methods in sampling, shipboard techniques, identification of the plankton, and current analytical techniques. (Lecture, 2 hours; lab, 6 hours) Prerequisites: general biology, general chemistry. (MLML 144) (Spring)

**MSCI 3550 Physiological Ecology of Marine Algae (4 units).** A lecture/lab course which develops a physiological basis for understanding the adaptation of marine algae (seaweeds and microalgae) to their environment. Students will learn modern methods in physiological research, covering areas such as photosynthesis, respiration, enzyme activity, and biochemical composition. (Lecture, 2 hours; lab, 6 hours) Prerequisites: MSCI 3030, 3310, 3440, or consent of instructor.

**MSCI 3610 Marine Fisheries (4 units).** An introduction to fishery biology, including the concepts stock, recruitment, and yield, emphasizing the parameters abundance, age, growth, and mortality. Discussion of hydrography and fishery ecology, management problems, world fisheries and mariculture, and collection and analysis of fishery data. (Lecture, 2 hours; lab, 6 hours) Prerequisites: College mathematics, MSCI 3040, or consent of instructor. MSCI 3030 recommended. (MLML 161) (Fall)

**MSCI 3730 Topics in Marine Biology (1–4 units).** The study of a selected area in marine biology (morphology, physiology, ecology, etc.). Subjects will vary depending on student demand and availability of instructors. Prerequisites: Consent of instructor. Offered on demand. (MLML 173)

**MSCI 3740 Topics in Oceanography (1–4 units).** The study of a selected area in oceanography. The subjects will vary depending on student demand and availability of instructors. Prerequisite: Consent of instructor. Offered on demand. (MLML 174)

**MSCI 3750 Topics in Marine Science (4 units).** The study of a selected area in marine sciences. The subjects will vary from one offering to the next depending on student demand and availability of instructors. Prerequisite: Consent of instructor. Offered on demand. (MLML 175)

**MSCI 3770 Microscopic Techniques (3 units).** Principles and techniques of light and electron microscopy. Consideration of brightfield, darkfield, phase contrast, and interference contrast light microscopy, episcopic and diascopic illumination systems; photomicrography; preparation of materials for and operation of the scanning electron microscope. (Lecture, 2 hours; lab 3 hours) Prerequisites: One semester college physics and consent of instructor. (MLML 177). (Fall)

**MSCI 4980 Independent Study (4 units).** Faculty-directed study of selected research problems; open to undergraduate students with adequate preparation. Prerequisite: Consent of instructor. (MLML 180)

## Graduate

**MSCI 5020 Marine Instrumental Analysis (4 units).** Theory and use of advanced instrumentation; advanced field and laboratory techniques for the interpretation of data collected in marine science research. (Lecture, 2 hours; lab or field 6 hours) Prerequisites: MSCI 3420, 3430. (MLML 202) (Spring)

**MSCI 5040 Sampling and Experimental Design (4 units).** Basic design of experiments and field sampling for marine science. Discussions on random sampling, systematic sampling, subsampling survey techniques, and design of single multifactorial experiments using randomized and block experimental designs. Biases and problems of sampling marine biota. (Lecture, 4 hours) Prerequisites: MSCI 3030 and 3040. (MLML 204) (Fall)

**MSCI 5110 Ecology of Marine Birds and Mammals (4 units).** Community approach to the ecology of marine birds and mammals using experimental and sampling methodology. Examine distribution, abundance, trophic ecology, and behaviors of birds and mammals in Elkhorn Slough and Monterey Bay, (Lecture, 2 hours; Laboratory, 6 hours) Prerequisites: MSCI 3120, 3030 and 3040. (MLML 211) (Fall)

**MSCI 5120 Advanced Topics in Marine Vertebrates (1–4 units).** Advanced consideration of the ecology, physiology, and phylogeny of fishes, birds, or mammals, emphasizing current literature and research. Topics and emphasis will vary with term and instructor. May be repeated for credit when topics change. (Lecture, 2 hours; lab and field, 6 hours) Prerequisites: MSCI 3120, or 3130 and consent of instructor. (MLML 212) (Fall)

**MSCI 5210 Advanced Topics in Marine Invertebrates (1–4 units).** Advanced considerations of the ecology, physiology, and phylogeny of the various invertebrate phyla emphasizing current literature and research. Topics and emphasis will vary from term to term. May be repeated for credit when topics change. (Lecture, 2 hours; lab and field, 6 hours) Prerequisites: MSCI 3240 and consent of instructor. (MLML 221) (Fall)

**MSCI 5220 Biology of the Mollusca (4 units).** Systematics, functional morphology, ecology, and physiology of the mollusca with emphasis on the marine forms. (Lecture, 2 hours; lab or field, 6 hours) Prerequisite: MSCI 3240 or consent of instructor. (MLML 222) (Fall)

**MSCI 5310 Biology of Seaweeds (4 units).** Lectures–discussions on marine macroalgal biology with extensive reading of original literature. Ecologically oriented individual research projects involving laboratory culture and field experimentation. (Lecture 3 hours; lab or field, 6 hours) Prerequisites: MSCI 3310 or consent of instructor. Offered on demand. (MLML 231)

**MSCI 5330 Advanced Topics in Marine Ecology (1–4 units).** Selected topics and current issues in marine ecology. The subjects will vary depending on student demand and availability of instructors. Prerequisites: MSCI 3030 and consent of instructor. Offered on demand. (MLML 233)

**MSCI 5340 Advanced Biological Oceanography (4 units).** Experimental techniques in biological oceanography with emphasis on problems important in plankton ecology. The course includes lectures, labs, and discussions of current research problems. An individual research project involving analytical tools will be required. (Lecture, 2 hours; laboratory, 6 hours) Prerequisites: MSCI 3440 or consent of instructor. Offered on demand. (MLML 234)

**MSCI 5420 Plate Tectonics (3 units).** Historical background, modern theory and geophysical evidence of continental drift, sea floor spreading, and plate tectonics. Examinations of the impact of the recent revolution in historical geology. (Lecture, 3 hours) Prerequisite: MSCI 3410 or consent of instructor. Offered on demand. (MLML 242)

**MSCI 5440 Paleooceanography (4 units).** Interdisciplinary studies of the provenance, biologic, and geologic composition of marine sediments and of the organisms contributing to their formation; sedimentary processes affecting these sediments. (Lecture, 2 hours; lab, 6 hours) Prerequisites: MSCI 3410 or consent of instructor. (MLML 244) (Spring)

**MSCI 5450 Deep-Sea Sedimentation (4 units).** Study of the types of marine sediment found in the deepest part of all oceans; the sedimentary processes responsible for the deposition, preservation and re-deposition of these sediments. (Lecture, 2 hours; laboratory, 6 hours) Prerequisites: MSCI 3410 or consent of the instructor. (MLML 245) (Fall)

**MSCI 5510 Marine Geochemistry (4 units).** Geochemical processes in the oceans: thermodynamics of low-temperature aqueous reactions, weathering, oxidation-reduction and biologically mediated reactions, processes occurring at the sea floor and air-sea interface. (Lecture, 2 hours; lab or field, 6 hours) Prerequisites: MSCI 3430, quantitative analysis, one year calculus, or consent of instructor. Offered on demand. (MLML 251)

**MSCI 5610 Ocean Circulation and Mixing (4 units).** The mathematical description of the distribution of properties (density, dissolved oxygen, etc.) in the oceans relating to physical and biochemical processes. Theory of distribution of variables, geostrophic method. (Lecture, 3 hours; lab or field, 3 hours) Prerequisites: MSCI 3420, one year calculus, or consent of instructor. College physics strongly recommended. (MLML 261) (Spring)

**MSCI 5620 Satellite Oceanography (4 units).** Basic principles of remote sensing of the oceans. Topics to include: Electromagnetic radiation, blackbody radiation; atmospheric scattering and absorption; principles of radio metric measurements; ocean color sensing; atmospheric correction; image registration, mapping; image processing and enhancement; ocean color imagery and temperature imagery. (Lecture, 2 hours; laboratory, 6 hours) Prerequisites: MSCI 3420, MSCI 3440 or consent of instructor. Computer-literacy recommended. (MLML 262) (Spring)

**MSCI 5630 Computer Applications in Oceanography (4 units).** Lecture, discussion and practical experience with multi-user computer for marine science applications: use of existing programs and subroutine libraries; computer communications; scientific programming for data I/O and analysis. Semester project required. (Lecture, 2 hours; Lab, 6 hours) Prerequisite: MSCI 3040, college math, and consent of instructor. (MLML 263) (Fall)

**MSCI 5710 Population Biology (3 units).** Principles of the interaction among marine organisms which result in the alteration of population structures; techniques for assessment and management of animal populations. (Lecture, 2 hours; lab or field, 3 hours) Prerequisites: MSCI 3030, 3040, or consent of instructor. (MLML 271) (Spring)

**MSCI 5720 Subtidal Ecology (4 units).** The ecology of nearshore rocky subtidal populations and communities with emphasis on kelp forests. Lectures and discussions of original literature. Field work with SCUBA including group projects on underwater research techniques and community analysis, and individual research on ecological questions chosen by the student. (Lecture, 2 hours; lab or field, 6 hours) Prerequisites: MLML diver certification and marine ecology. Knowledge of marine algae, invertebrates, and statistics is recommended. (MLML 272) (Spring)

**MSCI 5740 Advanced Topics in Oceanography (1-4 units).** The study of a selected area in oceanography. The subjects will vary depending on student demand and availability of instructors. Prerequisite: Consent of instructor. Offered on demand. (MLML 274)



**MSCI 5804 Scientific Writing (2 units).** Techniques and strategies of scientific writing used for proposals, journal submission, and abstracts for meetings. Prerequisites: Graduate standing and consent of instructor. (Discussion, 2 hours) (MLML 280) (Fall)

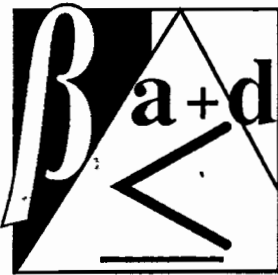
**MSCI 5850 Graduate Seminar in Marine Biology (2 units).** Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar. May be repeated once for credit. Prerequisite: Consent of instructor. (MLML 285) (Fall)

**MSCI 5860 Graduate Seminar in Marine Geology (2 units).** Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar. May be repeated once for credit. Prerequisite: Consent of instructor. (MLML 286) (Spring)

**MSCI 5870 Graduate Seminar in Oceanography (2 units).** Seminar will be held on topics changing each semester. Each student will be required to give at least one seminar. May be repeated once for credit. Prerequisite: Consent of instructor. (MLML 287) (Spring)

**MSCI 5980 Research in the Marine Sciences (1–4 units).** Independent investigations of an advanced character for the graduate student with adequate preparation. Prerequisite: Consent of instructor. (MLML 298) (Fall, Spring) NOTE: Stanislaus students must file Individual Study forms.

**MSCI 5990 Thesis (1–6 units).** Preparation, completion, and submission of an acceptable thesis for the Master's Degree in compliance with department regulations. Prerequisites: Open only to graduate students advanced to candidacy for the Master's Degree. (MLML 299) (Fall, Spring)



## Mathematics

**Office:** Science Building 239, (209) 667-3461  
**Chair:** Louiř A. Feldman  
**Faculty:** Thomas J. Abram, Amberse M. Banks, Judith L. Clarke, Chester W. Dyche, S. Abdul Fazal, Louiř A. Feldman, Ralph L. James, Narendra L. Maria (Emeritus), Dennis H. Nemzer, Dana M. Rencau, Terrie L. Short, Viji K. Sundar

The Department of Mathematics offers the degrees Bachelor of Arts, and Bachelor of Science, Mathematics. Both degree programs can be used to acquire preparation for various careers in business, education, government, and industry. Both degree programs can be used to acquire preparation for advanced study in mathematics and/or its applications. The Bachelor of Science degree program is oriented more towards the various applications of mathematics. The department offers concentrations in Mathematical Computing and Operations Research-Statistics within the Bachelor of Science degree program. A student may focus on a specific career objective in the applications of mathematics by completing one of the concentrations in the Bachelor of Science degree program. The department also offers a concentration in Mathematics for the Bachelor of Arts degree in Liberal Studies. In addition, the department offers a minor in Mathematics.

The degree programs presuppose seven semesters of high school level mathematics: algebra (2 years), plane geometry (1 year), and trigonometry (1/2 year); solid geometry and physics are desirable. Deficiencies may be made up by proper selection of courses in the lower division. Recommended courses in lower-division supporting fields are one year of economic theory or one year of general physics.

Courses in mathematical computing, mathematics, operations research and statistics are designed to provide quality undergraduate training in the mathematical sciences and to serve the need of majors in mathematics, the natural and social sciences, and other fields. The degree programs of the Department of Mathematics provide preparation for various careers in the mathematical sciences.

## Bachelor of Arts or Bachelor of Science, Mathematics

### Requirements

1. Complete University requirements for a bachelor's degree (51 units minimum).
2. Complete the following prerequisites to the major (20-23 units):
  - MATH 1410, 1420 Calculus, I, II, 8 units
  - MATH 1620 Probability and Statistics, 4 units (not required of transfer students who have taken a statistics course at another institution)
  - MATH 2410 Multivariate Calculus, 4 units
  - MATH 2510 Linear Algebra and Applications, 4 units

*Bachelor of Arts with Single Subject Waiver in Mathematics and Bachelor of Science students complete additionally*

  - CS 1500 Computer Programming I, 3 units

3. Complete the major of not less than 31 upper-division units. All courses which apply to the major must be completed with a grade of "C" or better.
4. Complete the following upper-division breadth units (15 units):
  - MATH 3250 Ordinary Differential Equations, 4 units
  - MATH 3510 Modern Algebra with Applications I, 4 units
  - MATH 4110 Introduction to Real Analysis I, 4 units
  - MATH 4600 Complex Variables, 3 units
5. It is strongly recommended that a mathematics major, depending upon his/her area of interest, complete at least one of the following year sequences of courses outside the discipline of mathematics:
  - CS 1500, 2500 Computer Programming I, II, 6 units
  - PHYS 2250, 2260 General Physics I, II, 8 units
  - ECON 2500, 2510 Principles of Economics I, II, 6 units
6. Complete the following upper-division units:
  - a. The Bachelor of Arts Major in Mathematics
    - i. Complete the following courses (8 units):
      - MATH 3511 Modern Algebra with Applications II, 4 units
      - MATH 4111 Introduction to Real Analysis II, 4 units
    - ii. Select upper-division courses in mathematics as approved by the major adviser (8 units).
  - b. The Bachelor of Arts Major in Mathematics with Single Subject Waiver.
    - i. Complete the upper-division courses listed in the Core Subject Units under the Single Subject Waiver Program (13 units).
    - ii. Select upper-division courses in mathematics as approved by the major adviser (3 units).
  - c. The Bachelor of Science Major
    - i. Complete two of the following (sequences) as approved by the major adviser (16 units).
      1. MATH 3250, 4250 Ordinary Differential Equations, Partial Differential Equations, 8 units
      2. MATH 4350, 4360 Numerical Analysis I, II, 8 units
      3. MATH 4451, 4461 Linear Programming and Applications, Introduction to Operations Research, 8 units
      4. MATH 4651, 4661 Modern Probability Theory, Statistical Inference, 8 units
    - ii. Select upper-division courses in mathematics as approved by the major adviser, so the total upper-division units is 31 (0-4 units).

## Elective Concentrations within the Degree Major for the Bachelor of Science

A student who elects to have a concentration in Mathematical Computing or Operations Research–Statistics may do so by completing the prerequisites to the major, the requirements for the major, and the requirements for the concentration. The Department of Mathematics offers the following concentrations:

1. **Mathematical Computing Concentration (31 units)**  
Complete the requirements for the major so as to include  
MATH 4350, 4360 Numerical Analysis I, II, 8 units

**2. Operations Research–Statistics Concentration (31 units)**

Complete the requirements for the major so as to include:

- a. MATH 4451, 4461 Linear Programming and Applications, Introduction to Operations Research, 8 units
- b. MATH 4651, 4661 Modern Probability Theory, Statistical Inference, 8 units

**Single Subject Waiver Program with a Major in Mathematics**

Complete the following courses as outlined below:

**1. Core Subject Units (36 units)**

- MATH 1410 Calculus I, 4 units
- MATH 1420 Calculus II, 4 units
- MATH 1620 Statistics, 4 units
- MATH 2410 Multivariate Calculus, 4 units
- MATH 2510 Linear Algebra and Applications, 4 units
- MATH 3060 Modern Geometry, 3 units
- MATH 3110 History of Mathematics, 3 units
- MATH 3600 Theory of Numbers, 3 units
- MATH 4651 Modern Probability Theory, 4 units
- CS 1500 Computer Programming I, 3 units

**2. Breadth Units (15 units)**

- a. MATH 3250 Ordinary Differential Equations, 4 units
- b. MATH 3510 Modern Algebra with Applications I, 4 units
- c. MATH 4110 Introduction to Real Analysis I, 4 units
- d. MATH 4600 Complex Variables, 3 units

**The Minor****Requirements (20 units)**

1. Complete MATH 1410, 1420 Calculus I, II, 8 units
2. Select upper-division courses in mathematics as approved by the minor adviser, for a minimum of 12 units.

**Liberal Studies Concentration (20 units)**

Complete twenty units in mathematics as approved by the major adviser, including a minimum of 15 upper-division units.

**Teaching Credentials**

Majors in mathematics interested in multiple subject or single subject credentials are referred to the "School of Education" section of this catalog for a description of teaching credential programs. Single subject waiver program in mathematics as approved by the California Commission on Teacher Credentialing is given above.

**Course Descriptions*****Prebaccalaureate***

**MATH 0101 Pre-Algebra (3 units).** (Replaces MATH 0100) This course is designed specifically to help college students fill the gaps in their mathematical backgrounds in preparation for further math courses. The course is a review of arithmetic, basic

geometry, and pre-algebra skills. Prerequisite: ELM score of 360 or below or consent of instructor. (Fall, Winter, Spring)

**MATH 0102 Elementary Algebra (3 units).** (Replaces MATH 0100) Continuation of MATH 0101. Review of elementary algebra including exponents, polynomials, fractions, radicals, and elementary inequalities. Prerequisite: ELM score of 370 to 470, inclusive, or satisfactory completion of MATH 0101, or consent of instructor.

**MATH 0105 Intermediate Algebra (3 units).** Exponents, fractions, radicals, elementary inequalities, polynomials, logarithmic and exponential functions. This course is designed to help college students fill the gap in their mathematical background in preparation for further math courses. Prerequisite: ELM score of 480, or satisfactory completion of MATH 0102 or consent of instructor.

### **Lower Division**

**MATH 1000 Math for Liberal Arts Students (3 units).** An introductory course which provides an overall view of contemporary mathematics for students who have no technical background. The course emphasizes mathematics as used in real life problems. Topics may be selected from the areas of elementary number theory, metric system, geometry, probability, statistics, power of the pocket calculator, and computers. Prerequisites: MATH 0105, or passing score in ELM, or equivalent.

**MATH 1030 Elementary Foundations of Mathematics I (3 units).** Elementary set theory, number systems, properties of real numbers, solutions of equations and inequalities. Recommended for students seeking an elementary teaching credential. Prerequisites: MATH 0105, or a passing score in ELM, or equivalent.

**MATH 1032 Elementary Foundations of Mathematics Lab I (1 unit).** Activities to introduce and reinforce the skills and objectives of MATH 1030. Guided discovery of concepts using manipulatives and interactive learning. Prerequisites: MATH 1030 or concurrent enrollment in MATH 1030.

**MATH 1040 Elementary Foundations of Mathematics II (3 units).** Continuation of MATH 1030. Functions and graphs, elementary probability and statistics, Euclidean geometry, measure, introduction to analytic geometry. Recommended for students seeking an elementary teaching credential. Prerequisite: MATH 1030 with a grade of "C" or better.

**MATH 1042 Elementary Foundations of Mathematics Lab II (1 unit).** Activities to introduce and reinforce the skills and objectives of MATH 1040. Guided discovery of concepts using manipulatives and interactive learning. Prerequisites: MATH 1040 or concurrent enrollment in MATH 1040.

**MATH 1100 Precalculus (4 units).** Introduction to analytic geometry, functions, circular and trigonometric functions, trigonometric identities, transcendental functions, complex numbers. Prerequisites: MATH 0105, or a passing score in ELM, or equivalent.

**MATH 1410 Calculus I (4 units).** Inequalities, functions and graphs, limits and continuity, the derivative, differentiation of algebraic and trigonometric functions, applications of differentiation, the definite integral, conic sections. Prerequisite: MATH 1100 with a grade of "C" or better, or equivalent. (CAN MATH 18)

**MATH 1420 Calculus II (4 units).** Exponential functions, parametric equations, thorough techniques of integration; applications of the definite integral, introduction to first order ordinary differential equations, L'Hôpital's rules, infinite series. Prerequisite: MATH 1410 with a grade of "C" or better. (CAN MATH 20)

**MATH 1500 Finite Mathematics (3 units).** Algebra of sets, theory of partitions and counting, elementary probability theory, vectors and matrices; Markov chains. Prerequisites: MATH 0105, or a passing score in ELM, or equivalent. (Fall, Spring)

**MATH 1600 Statistics (4 units).** Introductory course designed for students in the behavioral, biological, and social sciences. The description of sample data, probability and probability distributions, sampling and estimation, testing hypotheses, correlation and regression, introduction to analysis of variance. (Lecture, 3 hours; laboratory, 2 hours) Prerequisites: MATH 0105, or a passing score in ELM, or equivalent. (CAN STAT 2)

**MATH 1610 Statistics for Decision Making (3 units).** Introductory course for students in business administration. Data summarization, review of probability distributions; estimation, hypothesis testing, correlation, regression, index number, time series. Use of statistical computer packages. Prerequisite: MATH 0105, or a passing score in ELM, or equivalent.

**MATH 1620 Probability and Statistics (4 units).** Introductory course for mathematics and computer science majors. Combinatorics, probability and random variables. Descriptive statistics, estimation, hypothesis testing, correlation and regression. Use of computers for simulation and statistical analysis. Prerequisite: MATH 1410 with a grade of "C" or better.

**MATH 1910 Calculus with Applications I (3 units).** The fundamental concepts of calculus and their applications to problems in the behavioral, biological, chemical, decision, and social sciences will be introduced. Functions, graphs, limits, the derivative, applications of the derivative, definite integral. This course is not open to students who are seeking a Bachelor of Arts degree in mathematics, or physics; nor is it open to students seeking a Bachelor of Science degree in chemistry, physics, or mathematics. Prerequisites: MATH 0105, or a passing score in ELM, or equivalent.

**MATH 1920 Calculus with Applications II (3 units).** Fundamental concepts of calculus and their applications to the behavioral, biological, chemical, decision, and social sciences will be introduced. Logarithmic and exponential functions, trigonometric functions, techniques of integration, applications of the definite integral, introduction to calculus in higher dimensions. This course is not open to students seeking a Bachelor of Arts degree in mathematics or physics; nor is it open to students seeking a Bachelor of Science degree in chemistry, physics, or mathematics. Prerequisite: MATH 1910 or 1410.

**MATH 2300 Discrete Structures (3 units).** (Replaces MATH 3500) Discrete mathematical structures and their application in computer science. Sets, logic, proof, relations and functions. Topics selected from combinatorics, recurrence equations and graph theory. Prerequisite: MATH 1420.

**MATH 2410 Multivariate Calculus (4 units).** Vectors in three dimensions, solid analytic geometry, partial differentiation, multiple integration, differentiation under the integral sign, vector field theory. Prerequisite: MATH 1420 with a grade of "C" or better.

**MATH 2510 Linear Algebra and Applications (4 units).** Linear equations and matrices, vector spaces, inner product spaces, linear transformations, determinants, eigenvalues and eigenvectors, linear systems of differential equations, applications. Prerequisite: MATH 1420 with a grade of "C" or better. (Formerly 2500)

### **Upper Division**

**MATH 3060 Modern Geometry (3 units).** Logic of proofs, Hilbert's Axiom System. Incidence, separation, congruence, and continuity. Geometry and real numbers. Neutral Geometry. Non-Euclidean Geometry. Transformations. Prerequisites: MATH 2410 or concurrent enrollment in MATH 2410.

**MATH 3110 History of Mathematics (3 units).** Origin and development of mathematical ideas from early civilization to the present time. Recommended for prospective and in-service teachers. Prerequisite: MATH 1410.

**MATH 3250 Ordinary Differential Equations (4 units).** Linear ordinary differential equations, existence and uniqueness, series solutions, special functions, Laplace transforms, systems of linear equations. Prerequisite: MATH 1420.

**MATH 3350 Applied Mathematical Models (3 units).** Roles of mathematical models in society. Use of mathematical models to solve real world problems. Models in behavioral life, management, and social sciences will be emphasized. Not applicable to the requirements for the majors or minor in mathematics. Prerequisite: MATH 1500, 1600, or 1610.

**MATH 3400 Set Theory and Mathematical Logic (3 units).** Basic set theory and logic (especially as they apply to writing and understanding mathematical proofs), relations, functions, the well ordering theorem, mathematical induction, and cardinality. Prerequisite: MATH 1410 or PHIL 2100 or consent of instructor.

**MATH 3600 Theory of Numbers (3 units).** Study the properties of the integers including mathematical induction, the well ordering principle, Euclid's algorithm, divisibility, prime number, congruence of numbers, selected theorems and applications. Prerequisite: MATH 1420. (Formerly MATH 4500)

**MATH 4110 Introduction to Real Analysis I (4 units).** The real number system, sequences, limits, point set topology, continuity, metric spaces, compactness, Bolzano-Weierstrass theorem, completeness, and differentiation. Prerequisite: MATH 2410. (Formerly 4100)

**MATH 4111 Introduction to Real Analysis II (4 units).** Riemann-Stieltjes integral, uniform convergence, implicit function theorem, construction and properties of Lebesgue measure, and the Lebesgue integral. (Formerly 4101) Prerequisite: MATH 4110.

**MATH 4250 Partial Differential Equations (4 units).** Basic concepts, first order partial differential equations, classification of second order equations, initial value problems for wave equations, boundary value problems for Laplace and heat equations, maximum principle, existence and uniqueness theorems, applications. Prerequisite: MATH 2410 and MATH 3250 or consent of instructor. (Formerly MATH 3260)

**MATH 4350 Numerical Analysis I (4 units).** Topics selected from floating point arithmetic, errors, nonlinear equations, interpolation, numerical differentiation and integration, linear and nonlinear systems, eigenvalues, numerical solution of ordinary and partial differential equations, approximation. Prerequisites: MATH 2510 and CS 1500 or consent of instructor.

**MATH 4360 Numerical Analysis II (4 units).** Continuation of MATH 4350. Prerequisites: MATH 2410, 4350 or consent of instructor.

**MATH 4451 Linear Programming and Applications (4 units).** Vectors and matrices, linear programming theory. Computational techniques with emphasis on the simplex method. Post-optimal analysis, duality and its ramifications, integer programming, game theory. Prerequisites: MATH 2510 and CS 1500 or consent of instructor.

**MATH 4461 Introduction to Operations Research (4 units).** Special types of linear programming, dynamic programming, network analysis, project planning and scheduling techniques, inventory theory, introduction to waiting line models. Prerequisites: MATH 1420 and CS 1500 or consent of instructor.

**MATH 4510 Modern Algebra with Applications I (4 units).** An introduction to the development of the algebraic structures that arise in mathematics and its applications. Topics include groups, rings, integral domains, fields, vector spaces, and selected applications. Prerequisites: MATH 2410, MATH 2510, and nine upper division units in mathematics and/or computer sciences other than MATH 3350 and CS 4000. (Formerly MATH 3510)

**MATH 4511 Modern Algebra with Applications II (4 units).** Continuation of MATH 4510. Prerequisite: MATH 4510. (Formerly MATH 3511)

**MATH 4600 Complex Variables (3 units).** Complex numbers, analytic functions, Cauchy-Riemann equations, Cauchy theorem, Laurent series, calculus of residues, selected applications. Prerequisite: MATH 2410.

**MATH 4651 Modern Probability Theory (4 units):** Concepts of sample space, probability, random variables, expectation, moments, elementary combinatorial analysis; probability generating, moment generating, distribution and density functions. Emphasis will be placed on applications. (Formerly 3661) Prerequisites: MATH 1620 and MATH 2410 or consent of instructor.

**MATH 4661 Statistical Inference (4 units).** Review of relevant probability distributions, estimation theory, hypothesis testing, regression, correlation, and an introduction to non-parametric statistics with special emphasis on application of data. Students will be encouraged to use statistical packages, e.g., BMD, SPSS, etc. Prerequisite: MATH 4651.



**MATH 4910 Cooperative Education (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 6 units. At most, two units of MATH 4910 and/or MATH 4940 are applicable to the requirements for the majors or minor in mathematics. Prerequisites: Sophomore standing; consent of departmental coordinator.

**MATH 4940 Internship in Mathematics (1–4 units).** This course is designed for students in mathematics who want to apply their educational experience as an intern to a practical situation in a public or private agency. At most, two units of MATH 4910 and/or MATH 4940 are applicable to the requirements for the majors or minor in mathematics. Prerequisite: Consent of Department Internship Coordinator.

**MATH 4950 Selected Topics in Mathematics (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of mathematics. Topics vary each term. Different topics may be taken for credit. Prerequisites: Senior standing and consent of instructor.

**MATH 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Senior standing and consent of instructor.

### **Postbaccalaureate**

**MATH 5100 Principles and Techniques of Applied Mathematics (4 units).** Topics to be selected from the theory of distributions, Laplace and Fourier Transforms, difference equations, ordinary and partial differential equations, operator theory, and eigenfunction expansions. Prerequisite: MATH 3260 or 4111.

**MATH 5950 Selected Topics in Mathematics (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of mathematics. Topics vary each term. Different topics may be taken for credit. Prerequisites: Postbaccalaureate standing and consent of instructor.

**MATH 5980 Individual Study (1–4 units).** For qualified postbaccalaureate students in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Postbaccalaureate standing and consent of instructor.

### **Professional Postgraduate**

**MATH 6980 Individual Study (1–4 units).** For qualified postbaccalaureate students in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Postbaccalaureate standing and consent of instructor.



## Modern Languages

**Office:** Classroom Building 237D, (209) 667-3686  
**Chair:** Gerhard Mack  
**Faculty:** Robert K. Anderson, Julia G. Cruz, Gisela Dardon, Michael C. Fuller, Gerhard Mack, Irel Urreiztieta

Students in the Department of Modern Languages may obtain a Bachelor of Arts degree in French or Spanish; a Liberal Studies concentration in French, German or Spanish; or a degree minor in French, German or Spanish. In addition, the Department offers courses in critical foreign languages such as Chinese, Japanese, Russian, Latin, Cambodian, Hmong, and Portuguese.

Majors and/or minors in Modern Languages and Literatures are designed to assist students as they plan for their careers. Some students anticipate a teaching career at the elementary or secondary level, while others are training to meet the challenges of advanced studies in language and literature. A growing number will discover that foreign language ability and sensitivity to other cultures are important assets, especially in career choices such as social sciences, the foreign service, international finance and banking, and international business. Our goals are: to assist students in perfecting their foreign language skills (all courses are taught in the target language); to deepen their knowledge of language and the humanities by introducing them to representative authors and ideas; and to acquaint them with the culture and traditions of the people whose languages they have chosen to study.

As today's students gain knowledge and understanding of other languages and cultures, they inevitably develop greater appreciation of their own. In the process, they find themselves better equipped to succeed in our modern society where multilingual and multinational interests are becoming swiftly and inexorably part of our daily lives.

### Critical Foreign Languages (FLAN)

The Critical Foreign Languages program offers languages important to scholarship, diplomacy, or commerce, but for which there is insufficient student demand to justify a regular teaching staff. The format used in this program differs from that of traditional language classes. Here, students are responsible for their own learning, working ten hours each week with a textbook and accompanying audio tapes. In addition, they meet in tutorial sessions two hours per week for intensive oral drill with an educated native speaker of the language. The course is not self-paced; a specific number of lessons must be mastered each semester. An outside examiner, who teaches the language at an accredited institution, paces the work, examines students at the end of each semester, and assigns grades. Critical foreign language courses are heavily but not exclusively oral.

Courses designated FLAN consist of three distinct kinds of courses. They may be (1) critical foreign language courses (see below); (2) traditionally taught courses in languages other than French, German, or Spanish; or (3) English language courses for F1-visa students.

## Course Descriptions

### *Offered under Critical Foreign Languages Program*

#### Foreign Languages

**FLAN 1010 Elementary Japanese I (4 units).** Intensive introduction to Japanese, using the Jordan method. In this first semester, students do rigorous work in comprehension, speaking, and basic grammatical structures. This is not a "conversational Japanese" course. (Fall)

**FLAN 1020 Elementary Japanese II (4 units).** Continuation of FLAN 1010. Students continue intensive oral and grammatical work. Introduction to the Japanese writing system. Prerequisite: FLAN 1010 or equivalent. (Spring)

**FLAN 1030 Elementary Russian I (4 units).** First-year Russian, oral proficiency approach; understanding, speaking, reading, and writing; introduction to Russian culture. (Fall)

**FLAN 1040 Elementary Russian II (4 units).** Continuation of FLAN 1030. Prerequisite: FLAN 1030 or equivalent, or consent of instructor. (Spring)

**FLAN 1050 Elementary Chinese I (4 units).** Intensive introduction to Chinese. In this first semester, students do rigorous work in comprehension, speaking, and basic grammatical structures. This is not a "conversational Chinese" course. (Fall)

**FLAN 1060 Elementary Chinese II (4 units).** Continuation of FLAN 1050. Students continue intensive oral and grammatical work. Introduction to the Chinese writing system. Prerequisite: FLAN 1050 or equivalent. (Spring)

**FLAN 1070 Elementary Cambodian I (4 units).** Intensive introduction to spoken Cambodian (Khmer). Includes an introduction to Cambodian culture. (Fall)

**FLAN 1071 Elementary Cambodian for School Personnel I (3 units).** Introduction to Cambodian (Khmer) language and culture. This course closely parallels FLAN 1070, but emphasizes vocabulary selected to be most useful to school personnel dealing with the Cambodian refugee population.

**FLAN 1075 Written Cambodian for Cambodian (Khmer) Speakers I (3 units).** This course introduces native speakers of Khmer to that language's traditional written system. Students will write Khmer for personal needs (letters), read simple texts, and develop greater vocabulary and structural control of the language. Prerequisite: Fluent conversational command of Cambodian language. (Fall)

**FLAN 1080 Elementary Cambodian II (4 units).** Continuation of FLAN 1070. Prerequisites: FLAN 1070 or equivalent. (Spring)

**FLAN 1081 Elementary Cambodian for School Personnel II (3 units).** A continuation of FLAN 1071. Introduction to Cambodian (Khmer) language and culture. This course closely parallels FLAN 1080 but emphasizes vocabulary selected to be most useful to school personnel dealing with the Cambodian refugee population.

**FLAN 1090 Elementary Latin I (3 units).** An intensive beginning course which progresses rapidly through the rudiments of the language by means of lecture, drill, and close study of selected passages from ancient authors. (Fall)

**FLAN 1091 Elementary Latin II (3 units).** A continuation of Elementary Latin I. Prerequisite: Elementary Latin I or equivalent. (Spring)

**FLAN 1095 Written Hmong for Hmong Speakers I (3 units).** This course introduces native speakers of Hmong language to the Romanized Hmong written system. Students are introduced to traditional Hmong literature (history and folklore) as well as to contemporary writers in Hmong. Students are expected to develop reading comprehension of Hmong language at least at the equivalent of a traditional third-year language student; they also produce written compositions in Hmong. Prerequisite: Native fluency in Hmong.

**FLAN 1096 Written Hmong for Hmong Speakers II (3 units).** This course for native speakers of Hmong is an advanced study of the Romanized Hmong written system. Students will continue development of reading and writing skills through further study of traditional and contemporary Hmong literature. They will produce written compositions in response to what they read. This course is a continuation of Written Hmong for Hmong Speakers I. Prerequisite: FLAN 1095.

**FLAN 2010 Intermediate Japanese I (3 units).** Second-year Japanese, emphasizing oral proficiency. Understanding, speaking, reading, and writing Japanese. Prerequisite: FLAN 1020 or equivalent. (Fall)

**FLAN 2020 Intermediate Japanese II (3 units).** Continuation of FLAN 2010. Prerequisite: FLAN 2010 or equivalent. (Spring)

**FLAN 2030 Intermediate Russian I (3 units).** Second-year Russian, emphasizing oral proficiency. Understanding, speaking, reading, and writing Russian. Prerequisite: FLAN 1040 or equivalent. (Fall)

**FLAN 2040 Intermediate Russian II (3 units).** Continuation of FLAN 2030. Prerequisite: FLAN 2030 or equivalent. (Spring)

**FLAN 2050 Intermediate Chinese I (3 units).** Second-year Chinese, emphasizing oral proficiency. Understanding, speaking, reading, and writing Chinese. Prerequisite: FLAN 1060 or equivalent. (Fall)

**FLAN 2060 Intermediate Chinese II (3 units).** Continuation of FLAN 2050. Prerequisite: FLAN 2050 or equivalent. (Spring)

**FLAN 2950 Selected Topics in FLAN (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected topic in critical foreign languages. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**FLAN 4950 Selected Topics in FLAN (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected topic in critical foreign languages. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**FLAN 4980 Individual Study (1-4 units).** For advanced undergraduate students prepared for independent work and in need of advanced and specialized study in critical foreign languages. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

**FLAN 6000 Selected Topics in Foreign Languages (1-5 units).** Courses offered through Continuing and Extended Education. Topics vary each term. These courses are not applicable to a California State University, Stanislaus degree program in Modern Languages, nor are they applicable to General Education credit.

### **Portuguese**

**PORT 1010 Elementary Portuguese I (4 units).** (Formerly FLAN 1016). First year Portuguese. Development of listening comprehension, speaking, reading and writing skills to bring about oral proficiency. Introduction to the Portuguese culture.

**PORT 1020 Elementary Portuguese II (4 units).** (Formerly FLAN 1026). First year Portuguese. Continuation of FLAN 1016. Prerequisite: FLAN 1016 or consent of instructor.

**PORT 2010 Intermediate Portuguese I (3 units).** (Formerly FLAN 2016). An intermediate-level course in the Portuguese language, emphasizing expanding competency in speaking, understanding, reading, and writing Portuguese in the context of culture. Prerequisite: FLAN 1016 or equivalent, or consent of instructor.

**PORT 2020 Intermediate Portuguese II (3 units).** (Formerly FLAN 2026). Continuation of FLAN 2016. Prerequisite: FLAN 2016 or equivalent, or consent of instructor.

## French

**Note:** *A student who can demonstrate equivalent preparation may be exempt from 4 to 14 units of the lower-division requirement. Two years of college-level French or the equivalent is required for admission to upper-division courses.*

### Bachelor of Arts, French

#### Requirements

1. Complete University requirements for Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (14 units):
  - FREN 1010, 1020 Elementary French I, II, 8 units
  - FREN 2010, 2020 Intermediate French I, II, 6 units
3. Complete the major of not less than 24 upper-division units; of these no more than 8 units of CR-graded course work in courses graded exclusively CR/NC may apply toward the major.

**Note:** *Completion of an academic minor is not required but is strongly recommended for single subject credential candidates.*

#### The Major (24 units)

1. Complete the following required courses in the major field (10 units):
  - FREN 3010, 3020 Advanced French Grammar and Composition I, II, 6 units
  - FREN 3500 French Phonetics, 3 units
  - FREN 3510 French Conversation, 1 unit
2. Select elective courses in the major field as follows (14 units):
  - a. Two courses from the following sequence (6 units):
    - FREN 3300 Aspects of French Non-Fiction, 3 units
    - FREN 3310 Aspects of French Drama, 3 units
    - FREN 3320 Aspects of French Poetry, 3 units
    - FREN 3330 Aspects of the French Novel, 3 units
    - FREN 3340 Aspects du Conte Français, 3 units
  - b. Upper-division elective courses to total not less than 8 units

#### The Minor

##### Requirements (26 units)

Complete 26 units of French course work as outlined below, to include at least 12 units in upper division, with a minimum of 14 college-level units:

1. Complete the following lower-division courses (14 units):
  - FREN 1010, 1020 Elementary French I, II, 8 units
  - FREN 2010, 2020 Intermediate French I, II, 6 units
2. Complete upper-division course work as follows (12 units):
  - a. FREN 3010, 3020 Advanced French Grammar and Composition I, II, 6 units
  - b. One course from the following sequence (3 units):
    - FREN 3300 Aspects of French Non-Fiction, 3 units
    - FREN 3310 Aspects of French Drama, 3 units

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- FREN 3320 Aspects of French Poetry, 3 units
- FREN 3330 Aspects of the French Novel, 3 units
- FREN 3340 Aspects du Conte Français, 3 units

c. Upper-division elective courses to total 3 units

## Liberal Studies Concentration

### Requirements (20 units minimum)

1. Complete the following courses (6–12 units):
  - FREN 2010, 2020 Intermediate French I, II, or equivalent, 0–6 units
  - FREN 3010, 3020 Advanced French Grammar and Composition I, II, 6 units
2. Select two courses from the following (6 units):
  - FREN 3300 Aspects of French Non-Fiction, 3 units
  - FREN 3310 Aspects of French Drama, 3 units
  - FREN 3320 Aspects of French Poetry, 3 units
  - FREN 3330 Aspects of the French Novel, 3 units
  - FREN 3340 Aspects du Conte Français, 3 units
3. Select upper-division electives in French by advisement, 3–8 units

## Teaching Credentials

Those interested in completing the single subject waiver program in French should obtain the up-to-date description of the program currently available in the Department of Modern Languages. Please refer to the “School of Education, Teacher Education” section of this catalog for a description of other requirements to be completed in obtaining a single subject credential.

## Course Descriptions

### Lower Division

**FREN 1010 Elementary French I (4 units).** First-year French, oral proficiency approach; understanding, speaking, reading, and writing; introduction to French culture. (Fall)

**FREN 1020 Elementary French II (4 units).** Continuation of FREN 1010. Prerequisite: FREN 1010 or equivalent, or consent of instructor. (Spring)

**FREN 1987 Basic Conversation Adjunct (1 unit).** A course designed to supplement lower-division language courses to help students improve their oral competence in French. Prerequisite: Current or previous enrollment in a lower-division French course. (Fall, Spring)

**FREN 1988 Basic Conversation Adjunct (2 units).** A course designed to supplement lower-division language courses to help students improve their oral competence in French. Prerequisite: Current or previous enrollment in a lower-division French course. (Winter)

**FREN 2010 Intermediate French I (3 units).** Second-year French, emphasizing oral proficiency approach. Extensive review of the morphology and syntax of the language. Consideration of French culture. Prerequisite: FREN 1020 or equivalent, or consent of instructor. (Fall)

**FREN 2020 Intermediate French II (3 units).** Continuation of FREN 2010. Prerequisite: FREN 2010 or equivalent, or consent of instructor. (Spring)

## Upper Division

**FREN 3010 Advanced French Grammar and Composition I (3 units).** Oral and written practice in French, syntactic analysis, written and oral composition, and supplementary reading. Taught in French. Prerequisite: FREN 2020 or equivalent, or consent of instructor. (Fall)

**FREN 3020 Advanced French Grammar and Composition II (3 units).** Continuation of FREN 3010. Prerequisite: FREN 3010 or equivalent, or consent of instructor. (Spring)

**FREN 3200 Culture et Civilisation Françaises (3 units).** An introduction to the development of French civilization from its beginning to the present, with emphasis on contemporary France, as seen through literature, art, music. Taught in French. Prerequisite: FREN 2020 or equivalent.

**FREN 3300 Aspects of French Non-Fiction (3 units).** A course dealing with the development and evolution of French nonfiction, particularly essays, from Montaigne to the present. Conducted in French. Prerequisite: FREN 2020 or equivalent, or consent of instructor.

**FREN 3310 Aspects of French Drama (3 units).** A course dealing with selected French dramatic works, from the Middle Ages to the present. Conducted in French. Prerequisite: FREN 2020 or equivalent, or consent of instructor.

**FREN 3320 Aspects of French Poetry (3 units).** A course dealing with the development and evolution of French poetic forms, from the Middle Ages to the present. Conducted in French. Prerequisite: FREN 2020 or equivalent, or consent of instructor.

**FREN 3330 Aspects of the French Novel (3 units).** A course dealing with the development and evolution of the French novel, from its beginnings to the present. Conducted in French. Prerequisite: FREN 2020 or equivalent, or consent of instructor.

**FREN 3340 Aspects du Conte Français (3 units).** A detailed study of the short story genre in French literature, from the earliest examples (the fabliaux) to the present (Vercors, Camus, Sartre). The bulk of the course will deal with the great 19th-century conteurs: Flaubert, Daudet and Maupassant. Conducted in French. Prerequisite: FREN 2020 or consent of instructor.

**FREN 3500 French Phonetics (3 units).** A detailed study of modern French phonology and its representation in the International Phonetic Alphabet, including work on dialectal differences as well as analysis of contrasts with English. Prerequisite: FREN 2020 or equivalent, or consent of instructor.

**FREN 3510 French Conversation (1 unit).** A course designed for advanced students. Class work will include discussions of current (cultural) events and/or other topics of common interest. Course may be repeated once for credit. (Laboratory, 2 hours) Prerequisite: FREN 2020 or equivalent, or consent of instructor.

**FREN 3930 French Literature in Translation (3 units).** Studies in various aspects of French literature in English translation. Course content may vary from term to term. (Same as ENGL 3930)



**FREN 4810 *Linguistics and Language Instruction (3 units)***. An overview of the field of linguistics and its applicability for teaching foreign languages in the secondary schools. Satisfies upper division writing proficiency requirement. Prerequisite: Passing score on WPST and FREN 3010 or consent of instructor.

**FREN 4910 *Cooperative Education (2–4 units)***. This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisites: Sophomore standing; consent of departmental coordinator.

**FREN 4950 *Selected Topics in French (Topics to be specified in Class Schedule) (1–5 units)***. Development of a selected topic in French. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**FREN 4980 *Individual Study (1–4 units)***. For advanced undergraduate students prepared for independent work and in need of advanced and specialized study in French. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

### ***Postbaccalaureate***

**FREN 5980 *Individual Study (1–4 units)***. For postbaccalaureate students prepared for independent work and in need of advanced and specialized study in French. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

# German

## Degree Minor

### The Minor

#### Requirements (26 units)

1. Complete the following lower-division courses (14 units):
  - GERM 1010, 1020 Elementary German I; II, 8 units
  - GERM 2010, 2020 Intermediate German I, II, 6 units
2. Complete the following upper-division courses (6 units):
  - GERM 3010, 3020 Advanced German Grammar and Composition I, II, 6 units
3. Not less than 6 units of additional courses in upper-division German, as approved by adviser.

*Note:* Of the 26 unit total, at least 12 units must be in upper-division courses, with a minimum of 14 college-level units.

*Note:* A student who can demonstrate equivalent preparation may be exempt from 4 to 14 units of the lower-division requirement. Two years of college-level German or the equivalent is required for admission to upper-division courses.

### Liberal Studies Concentration

#### Requirements (20 units minimum)

1. Complete the following courses (12–18 units):
  - GERM 2010, 2020 Intermediate German I, II or equivalent, 0–6 units
  - GERM 3010 Advanced German Grammar and Composition I, 3 units
  - GERM 3110 Modern German Thought, 3 units
  - GERM 3201 Classics of German Literature, 3 units
  - GERM 3210 Modern German Fiction, 3 units
2. Select upper-division electives in German, by advisement, 3–8 units

### Teaching Credentials

#### Single Subject Credential Waiver Program

Those interested in completing the single subject waiver program in German should obtain the up-to-date description of the program currently available in the Department of Modern Languages. Please refer to the “School of Education, Teacher Education” section of this catalog for a description of other requirements to be completed in obtaining a single subject credential.

#### Course Descriptions

##### *Lower Division*

**GERM 1010 Elementary German I (4 units).** First-year German, oral proficiency approach; understanding, speaking, reading, and writing; introduction to German culture. (Fall)

**GERM 1020 Elementary German II (4 units).** Continuation of GERM 1010. Prerequisite: GERM 1010 or equivalent, or consent of instructor. (Spring)

**GERM 1987 Basic Conversation Adjunct (1 unit).** A course designed to supplement lower-division language courses to help students improve their oral competence in German. Prerequisite: Current or previous enrollment in a lower-division German course. (Fall, Spring)

**GERM 1988 Basic Conversation Adjunct (2 units).** A course designed to supplement lower-division language courses to help students improve their oral competence in German. Prerequisite: Current or previous enrollment in a lower-division German course. (Winter)

**GERM 2010 Intermediate German I (3 units).** Second-year German; intensified review of grammar. Special emphasis will be given to the development of increased skills in the reading, writing, speaking, and understanding of German. Consideration of German culture. Prerequisite: One year of college-level German or equivalent, or consent of instructor. (Fall)

**GERM 2020 Intermediate German II (3 units).** Continuation of GERM 2010. Prerequisite: GERM 2010 or equivalent, or consent of instructor. (Spring)

### **Upper Division**

**GERM 3010 Advanced German Grammar and Composition I (3 units).** Oral and written practice in German, syntactical analysis, written and oral composition, and supplementary reading. Prerequisite: Two years of college-level German or equivalent, or consent of instructor.

**GERM 3020 Advanced German Grammar and Composition II (3 units).** Continuation of GERM 3010. Prerequisite: GERM 3010 or equivalent, or consent of instructor.

**GERM 3110 Modern German Thought (3 units).** An introduction to the German mind as seen through literature, politics, history, religion, music. Prerequisite: Two years of college-level German or equivalent, or consent of instructor.

**GERM 3201 Classics of German Literature (3 units).** Major works of German literature from the beginnings to the 19th century, within the context of literary-philosophical movements. Readings include works of Walter von der Vogelweide, Grimmelshausen, Lessing, Goethe, Schiller, Eichendorff, Kleist, Buchner. Prerequisite: Two years of college-level German or equivalent, or consent of instructor.

**GERM 3210 Modern German Fiction (3 units).** Major works of German literature from the turn of the century to the present. Selected readings will include works of Brecht, Kafka, Mann, Hesse, Grass, Böll. Prerequisite: Two years of college-level German or equivalent, or consent of instructor.

**GERM 3220 Special Study: Genre (3 units).** Studies in various genres. Course content may vary from term to term. Typical courses include: The German Theatre; Masterpieces of German Poetry; The Novelle in German Literature. Different titles may be taken for credit under this course number. Prerequisite: Two years of college-level German or equivalent, or consent of instructor.

**GERM 3230 The German Theatre (3 units).** A study of major German dramas from the Storm and Stress period to the present. Prerequisite: Two years of college-level German or equivalent, or consent of instructor.

**GERM 3240 Masterpieces of German Poetry (3 units).** The reading and study of the highlights of German poetry, leading to an appreciation and understanding of the richness and diversity of the genre. Prerequisite: Two years of college-level German or equivalent, or consent of instructor.

**GERM 3250 The Novelle in German Literature (3 units).** The history and forms of the German Novelle, as manifested in the best known examples of the genre. Prerequisite: Two years of college-level German or equivalent, or consent of instructor.

**GERM 3500 German Phonetics (3 units).** A detailed study of modern German phonology and its representation, including work on dialectal differences as well as analysis of contrasts with English. Prerequisite: One year of college-level German or equivalent, or consent of instructor.

**GERM 3510 German Conversation (1 unit).** Specifically designed to improve listening comprehension and speaking proficiency in German through free conversation, oral reports, and laboratory work. This course may be repeated twice for credit. Prerequisite: Two years of college-level German or equivalent, or consent of instructor.

**GERM 3930 German Literature in Translation (3 units).** Studies in various aspects of German literature in English translation. Course content may vary from term to term. (Same as ENGL 3930)

**GERM 4810 Linguistics and Language Instruction (3 units).** An overview of the field of linguistics and its applicability for teaching foreign languages in the secondary schools. Satisfies upper division writing proficiency requirement. Prerequisite: passing score on WPST and GERM 3010 or consent of instructor.

**GERM 4910 Cooperative Education (2-4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of eight units depending upon departmental policy. Prerequisites: Sophomore standing and consent of departmental coordinator.

**GERM 4950 Selected Topics in German (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected topic in German. Topics vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**GERM 4980 Individual Study (1-4 units).** For the advanced undergraduate student prepared for independent work, and in need of advanced and specialized study in German. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

### **Postbaccalaureate**

**GERM 5980 Individual Study (1-4 units).** For qualified postbaccalaureate students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

# Spanish

**Note:** A placement test will be given to new students enrolling in Spanish courses. (See schedule of classes for dates.)

**Note:** A student who can demonstrate equivalent preparation may be exempt from 4 to 14 units of the lower-division requirement. Two years of college-level Spanish or the equivalent is required for admission to upper-division courses.

## Bachelor of Arts, Spanish

### Requirements

1. Complete the requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (14 units):
  - SPAN 1010, 1020 Elementary Spanish I, II, 8 units
  - SPAN 2010, 2020 Intermediate Spanish I, II, 6 units, *or*
  - SPAN 2011, 2015 Spanish for the Native Speaker, I, II, 6 units†
3. Complete the major of not less than 24 upper-division units; of these, no more than 8 units of CR-graded course work in courses graded exclusively CR/NC may apply toward the major.

**Note:** Completion of an academic minor is not required, but is strongly recommended for single subject credential candidates.

### The Major (24 units)

1. Complete SPAN 3010, 3020 Advanced Spanish I, II, 6 units
2. Select three courses from the following (9 units):
  - SPAN 3200 Literature & Civilization of Spain I, 3 units
  - SPAN 3210 Literature & Civilization of Spain II, 3 units
  - SPAN 3300 Literature & Civilization of Spanish America I, 3 units
  - SPAN 3310 Literature & Civilization of Spanish America II, 3 units
3. Select a minimum of nine units of additional upper-division Spanish course work, as approved by the major adviser.

### The Minor

#### Requirements (26 units)

1. Complete the following lower-division courses (14 units):
  - SPAN 1010, 1020 Elementary Spanish I, II, 8 units
  - SPAN 2010, 2020 Intermediate Spanish I, II, 6 units, *or*
  - SPAN 2011, 2015 Spanish for the Native Speaker I, II, 6 units†
2. Complete the following upper-division courses (6 units):
  - SPAN 3010, 3020 Advanced Spanish I, II, 6 units
3. Complete additional courses in upper-division Spanish, as approved by the department, to total not less than 6 units.

**Note:** Of the 26 unit total, at least 12 units must be in upper-division courses, with a minimum of 14 college-level units.

† Only those students who can demonstrate native oral proficiency may enroll in this intermediate course for native speakers.

## Liberal Studies Concentration

### Requirements (20 units)

1. Complete the following courses (0–6 units):  
 SPAN 2010, 2020 Intermediate Spanish I, II, 0–6 units, *or*  
 SPAN 2011, 2015 Spanish for the Native Speaker or equivalent, 0–6 units
2. Complete the following courses (6 units):  
 SPAN 3010, 3020 Advanced Spanish I, II, 6 units
3. Complete 8–14 units of upper-division electives in Spanish by advisement.

### Teaching Credentials

Those interested in completing the single subject waiver program in Spanish should obtain the up-to-date description of the program currently available in the Department of Modern Languages.

Please refer to the “School of Education, Teacher Education” section of this catalog for a description of other requirements to be completed in obtaining a single subject credential.

### Course Descriptions

#### *Lower Division*

**SPAN 1010 Elementary Spanish I (4 units).** First-year Spanish. Oral proficiency approach; understanding, speaking, reading, and writing. (Fall)

**SPAN 1015 Elementary Spanish–Intensive (4 units).** A beginning intensive Spanish course (a minimum of four hours per day) in which the primary goal is proficiency in communication. While the course is designed primarily to develop the ability to understand and speak “everyday Spanish” as naturally and spontaneously as possible, it also enables participants to cultivate their reading and writing skills in the target language.

**SPAN 1020 Elementary Spanish II (4 units).** Continuation of SPAN 1010. Prerequisite: SPAN 1010 or equivalent. (Spring)

**SPAN 1025 Elementary Spanish II–Intensive (4 units).** A second semester intensive Spanish course (a minimum of four hours per day) in which the primary goal is proficiency in communication. The course is designed to develop the ability to understand, speak, read, and write the target language as naturally and spontaneously as possible.

**SPAN 1987 Basic Conversation Adjust (1 unit).** A course designed to supplement lower-division language courses to help students improve their oral competence in Spanish. Prerequisite: Current or previous enrollment in a lower-division Spanish course. (Fall, Spring)

**SPAN 2010 Intermediate Spanish I (3 units).** Second-year Spanish, with emphasis on oral proficiency. Includes review of language structure patterns and reading assignments. Consideration of Hispanic cultures. Prerequisite: One year college-level Spanish or equivalent. (Fall)

**SPAN 2011 Spanish for Native Speakers I (3 units).** Beginning Spanish for native Spanish speakers with minimal formal training in the language. Cognition of language structures through reading, writing, and speaking. (Fall)

**SPAN 2015 Spanish for Native Speakers II (3 units).** Intermediate Spanish for native Spanish speakers with minimal formal training in the language. Cognition of language structures through reading, writing, and speaking. Prerequisite: SPAN 2011 or consent of instructor. (Spring)

**SPAN 2020 Intermediate Spanish II (3 units).** Continuation of SPAN 2010. Prerequisite: SPAN 2010 or equivalent. (Spring)

**SPAN 2950 Selected Topics in Spanish (Topic to be specified in Class Schedule) (1-5 units).** Development of a selected topic in Spanish. Topics will vary. Different topics may be taken for credit. Prerequisite: Consent of instructor.

### **Upper Division**

**SPAN 3010 Advanced Spanish I (3 units).** Oral and written practice of the language through class discussion of selected works, and written compositions about related topics. Required of majors and minors. Prerequisite: Two years of college-level Spanish or equivalent, or consent of instructor. (Fall)

**SPAN 3020 Advanced Spanish II (3 units).** Continuation of SPAN 3010. Required of majors and minors. Prerequisite: SPAN 3010 or equivalent, or consent of instructor. (Spring)

**SPAN 3200 Literature & Civilization of Spain I (3 units).** A course dealing with the development of Spanish literature from its beginnings to 1700. This course also covers the history and civilization of the same period. Prerequisite: SPAN 3010 or consent of instructor. (Fall)

**SPAN 3210 Literature & Civilization of Spain II (3 units).** A course dealing with the development of Spanish literature from 1700 to the present time. This course also covers the history and civilization of the same period. Prerequisite: SPAN 3010 or consent of instructor. (Spring)

**SPAN 3300 Literature & Civilization of Spanish America I (3 units).** A course dealing with the development of Spanish American literature from its beginnings to 1880. This course also covers the history and civilization of Spanish America during the same period. Prerequisite: SPAN 3010 or consent of instructor.

**SPAN 3310 Literature & Civilization of Spanish America II (3 units).** A course dealing with the development of Spanish American literature from 1880 to the present. This course also covers the history and civilization of Spanish America during the same period. Prerequisite: SPAN 3010 or consent of instructor.

**SPAN 3520 Spanish Conversation (1 unit).** A course designed to provide the participant the opportunity to develop a greater degree of oral spontaneity in the Spanish language. This course may be repeated for credit. Prerequisite: SPAN 2020 or equivalent, or consent of instructor.

**SPAN 3530 *Phonology and History of the Spanish Language (3 units)*.** A study of the phonological, morphological, and syntactical changes of the Spanish language from vulgar Latin to modern times. Also an analysis of modern Spanish phonetics and phonemics with emphasis on contrasts with English. Prerequisite: SPAN 2020 or equivalent, or consent of instructor.

**SPAN 3700 *La Literatura Femenina Hispánica (3 units)*.** Special study in women writers of the Hispanic World. Course content may vary from term to term: prose, poetry, theater, etc. Conducted in Spanish. Prerequisite: Two years of college-level Spanish or consent of instructor.

**SPAN 3701 *Women in Hispanic Literature (3 units)*.** A thematic study of women as literary characters and as authors as presented in representative works of eight centuries of Spanish-speaking countries. All required readings and class lectures will be conducted in English.

**SPAN 3800 *El Cuento Hispánico (3 units)*.** A course dealing with the development and evolution of short story writing in Spain or Latin America. Conducted in Spanish. Prerequisite: Two years of college Spanish or consent of instructor.

**SPAN 3900 *Cultura y Literatura Chicana (3 units)*.** A course dealing with the cultural background of the Chicano. Special emphasis will be given to works (prose, poetry, theater) written by contemporary Chicano writers. Conducted in Spanish and English. Prerequisite: Student must be bilingual.

**SPAN 3930 *Spanish/Latin-American Literature in Translation (3 units)*.** Studies in various aspects of Hispanic literature in English translation. Course content may vary from term to term. (Same as ENGL 3930)

**SPAN 3970 *Contemporary Latin-American Prose in Translation (3 units)*.** Studies in various aspects of Latin-American prose in English translation. Course content may vary from term to term.

**SPAN 4030 *Gramática Española (3 units)*.** Oral and written practice in Spanish, syntactical analysis. Prerequisite: SPAN 2020 and/or consent of instructor.

**SPAN 4201 *Teatro Hispánico (3 units)*.** A course dealing with the development and evolution of the theater in Spain and/or Spanish America. Course content may vary from semester to semester. Conducted in Spanish. Prerequisite: Two years of college-level Spanish or consent of instructor.

**SPAN 4230 *La Novela Hispánica (3 units)*.** A course with special focus on the development of the novel in Spain and/or Spanish America. Course content may vary from semester to semester. Conducted in Spanish. Prerequisite: Two years of college-level Spanish or consent of instructor.

**SPAN 4231 *La Novela de la Revolución Mexicana (3 units)*.** Study of selected works by Mexican writers during the Mexican Revolution. To acquaint the student with the writer of a genuine Mexican literature which reflects the Mexican society and its roots and politics. Prerequisite: Two years of college-level Spanish or consent of instructor.



**SPAN 4240 Cervantes (3 units).** A study of the works of Cervantes, including *Don Quijote*. Prerequisite: SPAN 3010 or consent of instructor.

**SPAN 4600 Literatura Mexicana (3 units).** Authors of Mexico and their works from Cortes to the contemporary period. Prerequisite: SPAN 3010 or consent of instructor.

**SPAN 4810 Linguistics and Language Instruction (3 units).** An overview of the field of linguistics and its applicability for teaching foreign languages in the secondary schools. Satisfies upper division writing proficiency requirement. Prerequisite: passing score on WPST and SPAN 3010 or consent of instructor.

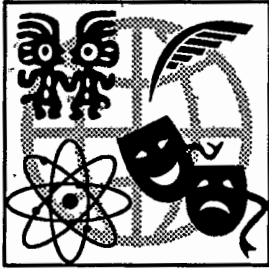
**SPAN 4910 Cooperative Education (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisites: Sophomore standing and consent of departmental coordinator.

**SPAN 4950 Selected Topics in Spanish (Topics to be specified in Class Schedule) (1–5 units).** Topics vary each term; different topics may be taken for credit. Prerequisite: SPAN 3010 or consent of instructor.

**SPAN 4980 Individual Study (1–4 units).** For students prepared for independent work and in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

## Postbaccalaureate

**SPAN 5980 Individual Study (1–4 units).** For postbaccalaureate students needing advanced or specialized study. May be repeated for 6 units. Prerequisite: Consent of instructor.



## Multidisciplinary Studies

Office: Library Building 105, (209) 667-3254  
 Coordinator: Jay Christofferson

The University offers multidisciplinary courses outside the departmental and school structure. These courses are given the MDIS prefix.

### Course Descriptions

#### *Lower Division*

**MDIS 1000 First-Year Experience (3 units).** A student-centered course that introduces college-level modes of discussion, analysis, argument, and orderly presentation. The course content is based on contemporary issues and values, including the values and directions to be discovered in a university education. Students are offered the opportunity to translate their personal values into effective career and life choices. Prerequisites: MDIS 1000 and LIBS 1000 cannot both be taken for credit.

**MDIS 1100 Perspectives on Modern Life and Thought (3 units).** Designed as an introduction to the University, this course features faculty members from many different departments who lecture on the basic ideas of some of the most dynamic thinkers of modern times. The course helps prepare students to succeed in college through instruction in improving necessary college skills such as test preparation, essay organization, and note taking. (Fall)

**MDIS 2000 Library Resources (2 units).** This course provides students with the essential background for effective use of libraries, basic university library reference materials, and fundamental library resources for subject majors. (Fall, Spring)

**MDIS 2500 Student Affairs Leadership (1 unit).** Analysis of leadership skills. Topics include goal setting for organizations, group dynamics, small group communications principles, fiscal management, parliamentary procedures, and time management. Credit is given for those participating in student government. Students are encouraged to enroll both Fall and Spring Semesters for a maximum of 2.0 units. Prerequisites: Consent of instructor and membership on student government board. (Fall, Spring)

**MDIS 2950 Selected Topics in Multidisciplinary Studies (Topics to be Specified in Class Schedule) (1-5 units).** Development of a selected topic in multidisciplinary study. Topics vary each term. Different topics may be taken for credit.

**MDIS 2980 Individual Study (1-4 units).** For undergraduate lower-division students who are prepared to undertake independent study and research. Prerequisite: Consent of instructor. (Fall, Spring)

### ***Upper Division***

***MDIS 3000 Introduction to Gerontology (3 units).*** A broad overview of the current concepts, issues, and processes associated with human aging and the latter part of the life cycle. The problems and challenges facing the older person will be explored from the perspectives of various disciplines as they contribute to our understanding of related systems. Prerequisite: Junior or senior standing. (Offered alternate years).

***MDIS 3010 Seminar in Community Learning (1 unit).*** A discussion seminar for students doing community service projects. The course will require students from various disciplines to exchange ideas with each other and participating faculty as they assess the effectiveness of their service learning efforts.

***MDIS 4300 Science, Technology and Human Values (3 units).*** An investigation into various areas in which scientific discovery and technological development have raised questions relating to human values, private and social. Lecture and discussion topics will include consideration of human institutions and natural processes and the impacts of science and technology or both, as well as the biological and social foundations of human behavior and value systems. Prerequisite: Junior standing.

***MDIS 4400 Politics of the Environment (3 units).*** Study of environmental problems arising from human use of natural resources and of actions taken to deal with the problems. Will examine environmental policy.

***MDIS 4910 Cooperative Education (2-4 units).*** This course provides an opportunity to acquire relevant, practical experience in supervised, paid employment in a particular multidisciplinary program. Students are placed in private or public sector positions under the supervision of the employer and the departmental Cooperative Education Coordinator. May be repeated for a total of 8 units, depending upon program policy. Prerequisites: Sophomore standing; consent of departmental Co-op coordinator. (Fall, Winter, Spring)

***MDIS 4930 Peer Advising (2 units).*** This course explores principles for effectively communicating with individuals from diverse backgrounds in a group setting. Sociological analysis of transition and adaptation styles are included. Participant observation is employed as students impart information and become active listeners in the academic setting. Prerequisite: Consent of instructor.

***MDIS 4935 Peer Advising Internship (2 units).*** This course provides an opportunity to acquire supervised, practical experience as a peer adviser in the University setting. Attendance at regularly scheduled meetings and a written journal are required. May be repeated for credit. Prerequisite: MDIS 4930 or consent of instructor.

***MDIS 4950 Selected Topics in Multidisciplinary Studies (Topics to be specified in Class Schedule) (1-5 units).*** Development of a selected topic in multidisciplinary study. Topics vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

***MDIS 4960 Seminar in Technology and Society (3 units).*** Readings, papers, and discussion on the societal, ecological, and philosophical issues raised by contemporary science and technology. Prerequisite: MDIS 3500 or consent of instructor. (Offered alternate years)

**MDIS 4980 Individual Study (1–4 units).** For undergraduate students prepared for independent study designed to supplement regular course offerings. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

### ***Postbaccalaureate***

**MDIS 5900 Introduction to Graduate Field Research Methods (3 units).** To provide basic knowledge and skills requisite to conducting field research; covers philosophical foundations of social research, research design, methods, analysis, basic SPSS, and interpretation. Quantitative and qualitative approaches will be considered. Prepares students to conduct research directed to meeting requirements for M.A. Special Major thesis or projects. (Successful completion of research prospectus meets Graduate Writing Competency Requirement.) (Fall)

**MDIS 5950 Selected Topics in Multidisciplinary Studies (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected topic in multidisciplinary study. Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

**MDIS 5960 Graduate Project (1–6 units).** A terminal graduate project; intended for M.A. Special Majors. Prerequisite: Consent of instructor and major adviser.

**MDIS 5980 Individual Study (1–4 units).** For postbaccalaureate students prepared for independent work and in need of advanced integrated studies. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

**MDIS 5990 Thesis (1–6 units).** Thesis research; intended for M.A. Special Majors. May be repeated for a total of 6 units. Prerequisite: Consent of instructor and approval of major adviser.



## Music

**Office:** Music Building 3, (209) 667-3421  
**Chair:** Edward C. Harris  
**Faculty:** Joseph E. Bruggman (Emeritus), Ginger Covert Colla, Robert Danziger, Sylvia M. Ghiglieri, David S. Goedecke, Edward C. Harris, Richard d'A. Jensen, Deborah H. Kavasch, James M. Klein

The Department of Music is a Member of the National Association of Schools of Music and offers the degree of Bachelor of Arts, Music and a concentration in music for the Liberal Studies baccalaureate.

The degree program is designed for the study of music within a liberal arts college curriculum and is intended to provide the students with a comprehensive undergraduate education, an overview of the many professions available to the college trained musician, and an opportunity to begin the development of an area of concentration.

The department also offers courses which provide cultural and aesthetic enrichment for the general university student and the university community at large. The performing ensembles present concerts on campus and on annual tours. The department sponsors programs by visiting artists and cooperates with other University fine arts departments to stage major performances and workshops.

### Department Requirements

1. All students contemplating a major or minor in music are required to declare a major performing medium (voice, keyboard, or orchestral instrument) upon entering the program, and will take studio instruction in their major performing medium in accordance with the Degree Major in Music and the Degree Minor in Music. Fifth-year credential students are encouraged to continue studio instruction with permission of their applied music teacher.
2. Transfer students must be evaluated by the department before registering for their first semester on campus. This evaluation includes proficiency examinations in keyboard skills, sight singing, theory, and dictation. An assessment of performance abilities in the student's major performing medium will be made no later than the end of the first semester of studio instruction in accordance with the departmental requirement.
3. All music majors and minors will be evaluated by a committee at the end of each semester of applied study in their performing medium.
4. Students are required to perform in recital each semester, normally during the Directed Listening Recital Hour as part of the required course in applied music.
5. Music majors are required to attend departmental recitals and concerts as announced at the beginning of each semester. Enrollment by all music majors in Directed Listening (MUS 2880 or 4880) is required each semester to fulfill this requirement (8 semesters minimum). Transfer students will be evaluated upon entry into the Music program for Directed Listening requirements. Music minors are required to register for Directed Listening (MUS 2880/4880) each semester of applied study only (4 semesters minimum).

6. All music majors are required to demonstrate an acceptable level of performance skill in both piano and voice. All majors must enroll in an appropriate piano course until their piano proficiency exam has been passed. Lower-division students must fulfill these requirements by the end of the sophomore year. Students transferring in at the upper-division level must complete these requirements by the end of the junior year. Class instruction is offered at the beginning level in both piano and voice. Students must consult their advisers for specific requirements.
7. Music majors are required to participate in the appropriate major performing group (chorale, wind ensemble, orchestra) each term, utilizing their major performing medium. Keyboard and guitar majors normally enroll in Chorale as their major performing group. Part-time music majors (taking fewer than 7 units per semester) must participate in an ensemble until they have completed 8 semester units (4 lower-division and 4 upper-division). Music minors are required to participate in the appropriate major performing group (chorale, wind ensemble, orchestra) for each semester that they are enrolled in applied study.
8. All music majors must take a junior qualifying examination before registering for upper-division applied music.

## Bachelor of Arts, Music

Completion of the major in music prepares a student to apply for admission to the teaching credential program, to apply for graduate-level study, or to pursue a variety of professional careers, dependent upon specific areas of specialization and student interest. Emphasis is placed on the cultivation of individual student potential through study and experience in analysis, performance, theory, history, literature, and composition.

### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (26 units):
 

MUS 1220, 1230	Theory I, II, 6 units
MUS 1320, 1330	Eartraining and Sight-singing I, II, 2 units
MUS 2220, 2230	Chromatic Harmony, Twentieth Century Techniques, 6 units
MUS 2320, 2330	Eartraining and Sight-singing III, IV, 2 units
MUS 2400, 2410, 2440	Major Group Performance, 3 units
MUS 1610, 1640, 1670	Freshman Level applied study, 2 units
MUS 2610, 2640, 2670	Sophomore Level applied study, 2 units
MUS 2900	Music History and Literature I, 3 units
3. Complete the major of not less than 31 upper-division units as approved by the major adviser; of these no more than eight units of CR-graded course work from courses graded exclusively CR/NC may apply toward the major.
4. Completion of a minor is not required.

### Senior Year Requirement

The music major is a four-year course of study culminating in the presentation of a solo recital, or the completion of a faculty approved project. The decision as to which option to follow normally will be made at the end of the junior year of study.

1. The Solo Recital Track includes, in addition to the recital requirement, two semesters of applied study at the 4000 level and a faculty hearing of the recital material no later than one month before it is to be presented. Students intending to pursue the Recital Track must make that interest known at their final faculty hearing at the 3000 level of applied study. The recital itself will be a public presentation of a minimum of thirty minutes of literature demonstrating a mastery of performance practices related to several style periods. The recital may include ensembles where the student's performing medium is featured. In all cases, faculty approval of the recital itself is a requisite for graduation. One unit of credit is earned through registering for MUS 4900 (only during the term in which the recital is completed).
2. Students selecting the Project Track must have successfully completed two semesters of applied study at the 3000 level. One additional year of senior study is required. The nature and scope of the project must be determined by the student and a faculty member qualified to supervise the study, and must be approved by the music faculty before the student registers for the first semester of the senior year. Unit credit for the project is earned through registering in MUS 4900, Senior Project (only during the term in which the project is completed).

## The Major (31 units minimum)

1. Complete the following courses (21 units minimum):
 

MUS 3100, 3200	Music History and Literature II, III, 6 units
MUS 3250	18th Century Counterpoint, 2 units
MUS 3260	Form and Analysis, 2 units
MUS 3270	Basic Conducting, 2 units
MUS 4400, 4410, 4440	Major Group Performances, 4 units
MUS 3610, 3640, 3670	Junior Level applied study, 2 units
MUS 4610, 4640, 4670	Senior Level applied study, 2 units
MUS 4900	Senior Recital or Project, 1 unit
2. Under the direction of the major adviser, complete 10 units of study from the following areas of concentration:
  - a. Choral/Vocal Emphasis
 

MUS 3645	Lyric Diction I, 1 unit
MUS 4280	Choral Conducting, 2 units
MUS 4569	Vocal Literature, 1 unit
MUS 4570	Choral Literature Seminar, 2 units
MUS 4571	Vocal Pedagogy and Choral Technique, 2 units

 Electives as approved by adviser, up to 2 units.  
*Note: The single subject credential student in music must consult the faculty adviser in Music Education for details regarding specific music education courses.*
  - b. Instrumental Emphasis
 

MUS 3240	Orchestration, 2 units
MUS 4290	Instrumental Conducting, 2 units
MUS 4550	Instrumental Literature Seminar, 3 units

 Electives as approved by adviser, 3 units  
*Note: The single subject credential student in music is required to complete MUS 3650, 3660, String Techniques I, II, 2 units; and MUS 3680, Instrumental Techniques, 4 units, in place of electives.*

**c. Keyboard Emphasis**

MUS 3460 Harpsichord Literature, 2 units

MUS 3620 Accompanying, 2 units

MUS 4450 Piano Pedagogy, 2 units

MUS 4451 Piano Literature, 2 units

Electives as approved by adviser, 2 units

*Note: The single subject credential student in music must consult the faculty adviser for details regarding specific education courses.***The Minor****Requirements (24 units)****1. Complete 16 units of lower-division course work from the following courses:**

MUS 1220, 1230 Theory I, II, 6 units

MUS 1320, 1330 Eartraining and Sight-singing I, II, 2 units

MUS 1610, 1640, 1670 Freshman Level applied study, 2 units

MUS 2410, 2420, 2440 Major Group Performance, 4 units

MUS 2610, 2640, 2670 Sophomore Level applied study, 2 units

*Note: One or more of the above courses may be repeated as needed.***2. Complete the following upper-division courses (6 units):**

MUS 3100, 3200 Music History and Literature II, III, 6 units

**3. Electives as approved by the minor adviser, 2 units.****4. All minors must enroll in Directed Listening (MUS 2880/4880) and an appropriate major performing ensemble during each semester of applied study. (See Department Requirements.)***Note: Of the 24 units total, at least 8 must be in upper-division courses. See the department for further information.***Liberal Studies Concentration**

Complete a minimum of 20 units, including at least 15 units of upper-division courses.

**Requirements (20 units minimum)****1. Complete a minimum of 5 units from the following courses:**

MUS 1000 Introduction to Music, 3 units\*

MUS 1190 Music Fundamentals, 3 units\*

MUS 1600 Basic Class Piano, 1 unit

MUS 1620 Basic Class Guitar, 1 unit

MUS 1630 Basic Class Voice, 1 unit

MUS 2400, 2410, 2420, 2440 Major Group Performance, 1 unit each

MUS 2600 Intermediate Class Piano, 1 unit

MUS 2630 Intermediate Class Voice, 1 unit

MUS 2650 Intermediate Class Guitar, 1 unit

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\* MUS 1000 and MUS 1190 may not apply toward the twenty units of the concentration if used to satisfy Liberal Studies Area C requirements.



2. Complete a minimum of 15 units from the following courses:

- MUS 3270 Basic Conducting, 2 units
- MUS 3340 Music in Elementary School, 3 units
- MUS 3341 Music for the Classroom Teacher, 3 units
- MUS 3400 American Music, 3 units
- MUS 3650, 3660 String Technique I, II, 1 unit each
- MUS 3680 Instrumental Techniques, 1 unit
- MUS 4400, 4410 Major Group Performance, 1 unit each
- MUS 4420, 4440 Major Group Performance, 1 unit each

*Note: Of the 20 units total, at least 15 must be in upper-division courses.*

## Teaching Credential

The major requirements in music for students interested in obtaining a single subject teaching credential are the same as those listed for the music major. Please refer to the "School of Education, Teacher Education" section of this catalog for a description of other requirements to be completed in obtaining a single subject credential.

It is possible to obtain a preliminary credential in four years by following the general program listed below.

General Education, 40 units

Music Major, 58 units

Music Education:

MUS 3340 Music in Elementary Schools, 3 units

MUS 3370 Music in Secondary Schools, 3 units

## Music Courses for Non-Majors

For the student not majoring in music, the Music Department offers courses for cultural and aesthetic enrichment:

- MUS 1000 Introduction to Music, 3 units
- MUS 1190 Music Fundamentals, 3 units
- MUS 1600 Basic Class Piano, 1 unit
- MUS 1620 Basic Class Guitar, 1 unit
- MUS 1630 Basic Class Voice, 1 unit
- MUS 2000 Music of World Cultures, 3 units
- MUS 2600 Intermediate Class Piano, 1 unit
- MUS 2630 Intermediate Class Voice, 1 unit
- MUS 2650 Intermediate Class Guitar, 1 unit
- MUS 3341 Music for the Classroom Teacher, 3 units
- MUS 3400 American Music, 3 units
- MUS 3410 History of Jazz, 3 units

All students are welcome to participate in the various performance courses (chorale, wind ensemble, jazz ensemble, orchestra and small ensembles).

## Course Descriptions

### Lower Division

**MUS 1000 Introduction to Music (3 units).** A course for the general student which surveys musical elements, genres, forms, and styles. The growth and development of music through history from early times to the present will be studied. (Fall, Winter, Spring)

**MUS 1190 Music Fundamentals (3 units).** A beginning course in music reading, notation, intervals, scales, theory, and eartraining. Designed primarily for the student pursuing the liberal studies major, the general student, and the music student who does not qualify for enrollment in MUS 1220. (Fall, Winter, Spring)

**MUS 1220 Theory I (3 units).** Review of rudiments of music notation, scales, key signatures, intervals, triads, and inversions of triads. Emphasis is placed on analysis, creations of melodies based upon techniques of various musical periods, and four-part chorale style harmony. To be taken concurrently with MUS 1320. Prerequisite: Ability to read treble and bass clefs. Music major or minor or consent of instructor. (Fall)

**MUS 1230 Theory II (3 units).** Continuation of MUS 1220, beginning with construction of an underlying tonal harmonic (triadic) continuum. Emphasis will be on chord connection, employment of triadic inversions, and study of basic harmonic rhythm leading to the creation of two, three, and four part textures within a harmonic fabric. To be taken concurrently with MUS 1330. Prerequisite: MUS 1220. (Spring)

**MUS 1320 Eartraining and Sightsinging I (1 unit).** Pentatonic and diatonic melodies conducted and sung in solfeggio syllables; two-part rhythm exercises; simple keyboard harmony drills which parallel concurrent theoretical studies; beginning self-accompanied singing exercises, melodic, harmonic and rhythm dictation; and sightsinging. To be taken concurrently with MUS 1220. Prerequisite: music major or minor, or consent of instructor. (Fall)

**MUS 1330 Eartraining and Sightsinging II (1 unit):** Continuation of MUS 1320: More advanced diatonic melodies; three-part rhythm exercises; keyboard harmony exercises; self-accompanied singing exercises; melodic, harmonic, contrapuntal and rhythmic dictation; and sightsinging. To be taken concurrently with MUS 1230. Prerequisite: MUS 1220 or equivalent. (Spring)

**MUS 1600 Basic Class Piano (1 unit).** Basic keyboard experience in reading and playing music from beginning to intermediate level with emphasis on the fundamentals of music theory and structure. May be repeated for a total of 6 units. Music majors should consult keyboard coordinator for special requirements. (Fall, Spring)

**MUS 1610 Freshman-Level Keyboard (1 unit).** Instruction in technical, stylistic and aesthetic elements of artistic performance. Designed for music majors or minors whose performance medium is a keyboard instrument. May be repeated for a total of 4 units. Prerequisite: Consent of instructor. (Fall, Spring)

**MUS 1620 Basic Class Guitar (1 unit).** A basic course in folk guitar skills for those who may or may not have any previous musical training. May be repeated for a total of 2 units. (Fall)

**MUS 1630 Basic Class Voice (1 unit).** Introduction to singing, vocal technique, posture, breathing, tone production, and problems of tension and relaxation. May be repeated for a total of 4 units. (Fall, Spring)

**MUS 1640 Freshman-Level Voice (1 unit).** Instruction in technical, stylistic and aesthetic elements of artistic performance. For music majors or minors whose performance medium is voice. May be repeated for a total of 4 units. Prerequisite: Consent of instructor. (Fall, Spring)

**MUS 1670 Freshman-Level Orchestral Instruments (1 unit).** Instruction in technical, stylistic, and aesthetic elements of artistic performance. For music majors or minors whose performance medium is strings, woodwinds, brasses, or percussion. May be repeated for a total of 4 units. Prerequisite: Consent of instructor. (Fall, Spring)

**MUS 2000 Music of World Cultures (3 units).** An introduction to the music of various world cultures, with particular attention to the music of non-western peoples. (Spring)

**MUS 2220 Chromatic Harmony (3 units).** Continuation of MUS 1230. Emphasis will be on an understanding of 19th century harmonic practice, including seventh, ninth, eleventh and thirteenth chords, work in advanced modulation procedures, and more sophisticated harmonic progressions. Writing for the keyboard and for other instrumental and vocal combinations will be encouraged. Works from Beethoven through Franck will be analyzed and extensive time will be spent creating original works in conscious imitation of various 19th century styles. To be taken concurrently with MUS 2320. Prerequisite: MUS 1230. (Fall)

**MUS 2230 Twentieth Century Techniques (3 units).** Continuation of MUS 2220. Examination of impressionistic devices, quartal harmony, nontonal and atonal compositional processes. Emphasis upon 20th century western music. Numerous original compositions required. To be taken concurrently with MUS 2330. Prerequisite: MUS 2220. (Spring)

**MUS 2320 Eartraining and Sightsinging III (1 unit).** Continuation of MUS 1330. Diatonic and chromatic melodies, more advanced two- and three-part rhythm exercises, self-accompanied singing exercises, keyboard harmony, dictation, and sightsinging. To be taken concurrently with MUS 2220. Prerequisite: MUS 1330 or equivalent. (Fall)

**MUS 2330 Eartraining and Sightsinging IV (1 unit).** Continuation of MUS 2320. Diatonic, chromatic, modal, and 20th century melodies; four-part rhythm exercises; more advanced self-accompanied singing exercises; advanced melodic, contrapuntal, rhythmic and four-part chorale style dictation; and sightsinging. To be taken concurrently with MUS 2230. Prerequisite: MUS 2320 or equivalent. (Spring)

**MUS 2400 Orchestra (1 unit).** The study and performance of standard orchestral music. Students will participate in all public performances; field trips and off-campus performances may be required by the instructor. May be repeated for a total of 8 units. Prerequisite: An acceptable degree of performance skill. (Fall, Spring)

**MUS 2410 Concert Chorale (1 unit).** Study and performance of choral masterworks. Open to all students. A voice test will be given. Students will participate in all public performances; field trips and off-campus performances may be required by the instructor. May be repeated for a total of 8 units. Prerequisite: An acceptable singing voice. (Fall, Spring)

**MUS 2430 University Chambers Singers (1 unit).** A select vocal ensemble specializing in music written for small choral ensembles. A high level of musicianship is required. Prerequisites: Ability to read music well and consent of instructor. May be repeated for a total of 8 units. (Fall, Spring)

**MUS 2440 Wind Ensemble (1 unit).** Study and performance of materials for the wind band, and for various combinations of wind and percussion instruments. Students will participate in all public performances; field trips and off-campus performances may be required by the instructor. May be repeated for a total of 8 units. Prerequisite: An acceptable degree of performance skill. (Fall, Spring)

**MUS 2480 Jazz Ensemble (1 unit).** Study and performance of materials for the jazz ensemble. Students will participate in jazz concerts and study improvisation; field trips and off-campus performances may be required by the instructor. May be repeated for a total of 8 units. Prerequisite: An acceptable degree of performance skill. (Fall, Spring)

**MUS 2490 Vocal Ensemble (1 unit).** Study and performance of small ensemble literature for two or more voices. This course will from time to time undertake the performance of chamber operas; field trips and off-campus performances may be required by the instructor. Prerequisite: Consent of instructor. (As required)

**MUS 2500 Instrumental Chamber Ensemble (1 unit).** Study and performance of materials for small ensembles. Students will participate in public performances; field trips and off-campus performances may be required by the instructor. May be repeated for a total of 8 units. Prerequisites: An acceptable degree of performance skill and consent of the instructor. (As required)

**MUS 2600 Intermediate Class Piano (1 unit).** For general students, music minors, and music majors whose performance area is not piano. Keyboard experience in reading and playing music of intermediate level, such as the Bach inventions, classical sonatinas, and easier Romantic literature. May be repeated for a total of 8 units. Prerequisite: Consent of instructor. (Fall, Spring)

**MUS 2610 Sophomore-Level Keyboard (1 unit).** Continuation in technical, stylistic, and aesthetic elements of artistic performance. Designed for music majors or minors whose performance medium is a keyboard instrument. May be repeated for a total of 4 units. Prerequisite: Consent of instructor. (Fall, Spring)

**MUS 2630 Intermediate Class Voice (1 unit).** Continuation of MUS 1630. Study of the easier song literature of such composers as Brahms, Schumann, Barber and others. For general students, music minors, and music majors whose performance medium is not voice. May be repeated for a total of 4 units. Prerequisite: MUS 1630 or consent of the instructor. (Spring)

**MUS 2640 *Sophomore-Level Voice (1 unit)***. Continuation of instruction in technical, stylistic, and aesthetic elements of artistic performance. For music majors or minors whose performance medium is voice. May be repeated for a total of 4 units. Prerequisite: MUS 1640 or consent of instructor.

**MUS 2650 *Intermediate Class Guitar (1 unit)***. Introduction to the classical guitar and its repertoire. Prerequisite: MUS 1620 or consent of the instructor. (Spring)

**MUS 2660 *Showband (1 unit)***. The study and performance of standard pep band material. The group will perform at home CSUS men's and women's basketball games. Prerequisite: Consent of instructor. (As required)

**MUS 2670 *Sophomore-Level Orchestral Instruments (1 unit)***. Continuation of instruction in technical, stylistic, and aesthetic elements of artistic performance. For music majors or minors whose performance medium is strings, woodwinds, brasses, or percussion. May be repeated for a total of 4 units. Prerequisite: MUS 1670 or consent of instructor. (Fall, Spring)

**MUS 2710 *Introduction to Electronic Music Laboratory (2 units)***. A survey of the literature and music related to the field of electronic music with emphasis upon aesthetic and stylistic elements. Instruction is also given in the operation of basic synthesizing equipment. Projects in electronic music composition are required. May be repeated for a total of 4 units. Prerequisite: MUS 2230 or consent of instructor. (As required)

**MUS 2720 *Advanced Electronic Music (2 units)***. Instruction in advanced synthesis techniques relating to current synthesizer technology. Musical Instrument Digital Interface (MIDI). MIDI software and computer music applications for music composition are required. May be repeated for a total of 4 units. Prerequisite: MUS 2710 or consent of instructor. (As required)

**MUS 2733 *Elizabethan Feast of Stanislaus (1 unit)***. Musical production experience of the Elizabethan period. Performance to include singers, instrumentalists, and actors. Prerequisite: Consent of instructor.

**MUS 2880 *Directed Listening (1 unit)***. Listening assignments of live performances sponsored through the Music Department. Attendance at a minimum of eighteen concerts per semester is required of each student. The department will provide periodic overviews and discussions of selected repertory performed. Required of all Music majors and minors enrolled in Applied Studies. (Fall, Spring)

**MUS 2900 *Music History and Literature I (3 units)***. A survey of music of selected non-Western cultures and Western European music history and literature spanning medieval and the Renaissance periods. Prerequisite: Consent of instructor. (Fall)

**MUS 2923 *Opera Scenes (3 units)***. This class explores preparation and interpretation of performing solos and ensembles from operatic literature. Individual coaching emphasizing fundamentals of acting and singing, interpretation, diction, and movement. Prerequisite: Consent of instructor. (As required)

**MUS 2950 *Selected Topics in Music (Topics to be specified in Class Schedule) (1-5 units)***. Development of a selected branch of music. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor. (Fall, Spring)

## Upper Division

**MUS 3100 Music History and Literature II (3 units).** A survey of history and literature spanning the Baroque and Classical periods. Prerequisite: Consent of instructor. (Spring)

**MUS 3200 Music History and Literature III (3 units).** A survey of music history and literature spanning the Romantic period and the twentieth century. Prerequisite: Consent of instructor. (Spring)

**MUS 3240 Orchestration (2 units).** The study and application of scoring techniques for small and large ensembles with particular attention to tone colors and combinations of instruments. Prerequisite: MUS 2230 or consent of instructor. (Spring)

**MUS 3250 Eighteenth Century Counterpoint (2 units).** Counterpoint based on the harmonic practice of J. S. Bach. Harmonic and formal analysis of Bach's inventions and selected fugues from the Well-Tempered Clavichord, emphasis on creative writing in contrapuntal two- and three-part forms. Upon enrolling for Eighteenth Century Counterpoint transfer students who have completed the equivalent of MUS 2220 and 2230 at some other institution must exhibit competency through written and aural examination in materials normally covered in the theory sequence offered at this University. Thus, enrollment may be initiated but not confirmed until successful passage of the required examination. Prerequisite: MUS 2230. (Fall)

**MUS 3260 Form and Analysis (2 units).** Analysis of various types of musical structure including large forms; emphasis on the comparison of styles and the development of an ability to write in various forms. Upon enrolling for Form and Analysis, transfer students who have completed the equivalent of MUS 2220 and 2230 at some other institution must exhibit competency through written and aural examination in materials normally covered in the theory sequence offered at this University. Thus, enrollment may be initiated but not confirmed until successful passage of the required examination. Prerequisite: MUS 2230. (Spring)

**MUS 3270 Basic Conducting (2 units).** The study and development of basic elements of conducting and fundamental reading applicable to both vocal and instrumental ensembles. Prerequisites: MUS 1220, 1230, 1320, 1330, and consent of the instructor. (Fall)

**MUS 3340 Music in Elementary School (3 units).** A study of music experience for children, preschool through sixth grade. A course for upper-division music majors, minors, or the equivalent. Prerequisites: Consent of instructor. (Fall)

**MUS 334I Music for the Classroom Teacher (3 units).** Music activities suitable for children in grades K-6. Singing, movements, listening, and instrumental activities appropriate to child growth and development. Teaching a lesson in a lab situation will be required. A course for upper-division and graduate non-music majors. (Fall, Spring)

**MUS 3370 Music in Secondary Schools (3 units).** Contemporary trends in music education in the secondary school. Curriculum development, selection and organization of materials, and teaching techniques. Prerequisites: Consent of credential adviser and instructor. (Spring)

**MUS 3400 American Music (3 units).** A comprehensive survey and study of the music of the United States and the contributions of American composers from the American Revolution to the present. (Fall, Winter, Spring)

**MUS 3410 History of Jazz (3 Units).** An introduction to jazz with concentration on its evolution and its development in the United States. Prerequisites: MUS 1000 or equivalent. Junior standing. (Fall, Spring)

**MUS 3460 Harpsichord Literature (2 units).** A study of the various styles and forms of harpsichord literature from the sixteenth century through the eighteenth century with some performance of smaller pieces. Prerequisite: Consent of instructor. (Fall in alternating years)

**MUS 3610 Junior-Level Keyboard (1 unit).** Continuation in instruction in technical, stylistic, and aesthetic elements of artistic performance. Designed for music majors or minors whose performance medium is a keyboard instrument. May be repeated for a total of 4 units. Prerequisites: MUS 2610 or consent of instructor, and successful completion of a performance examination. (Fall, Spring)

**MUS 3620 Accompanying (1 unit).** Techniques of accompanying for various performance media. Reading skills are stressed. Students are assigned to work with other student performers or classes. May be repeated for a total of 8 units. Prerequisite: Consent of instructor. (Fall, Spring)

**MUS 3630 Class Harpsichord (1 unit).** For music majors and minors whose performance area is not harpsichord. May be repeated for a total of 8 units. Prerequisite: Consent of instructor.

**MUS 3640 Junior-Level Voice (1 unit).** Continuation of instruction in technical, stylistic, and aesthetic elements of artistic performance. For music majors or minors whose performance medium is voice. May be repeated for a total of 4 units. Prerequisites: MUS 2640 or consent of instructor, and successful completion of a performance examination. (Fall, Spring)

**MUS 3645 Lyric Diction I (1 unit).** Fundamentals of technique in articulation and pronunciation as applied to singing in English, Italian, and Ecclesiastical Latin. Drills in acquiring maximum fluency and flexibility of speech organs involved in diction, and a study of the International Phonetic Alphabet will be included. Prerequisite: Consent of instructor. (Spring in alternating years)

**MUS 3646 Lyric Diction II (1 unit).** Fundamentals of technique in articulation and pronunciation as applied to singing in German and French, including drills for acquiring maximum fluency and flexibility of speech organs involved in diction, and a continuation of the study of the International Phonetic Alphabet. Prerequisite: Consent of instructor. (Spring in alternating years)

**MUS 3650 String Technique I (1 unit).** Development of basic technique of playing violin and viola. Prerequisite: Consent of instructor.

**MUS 3660 String Technique II (1 unit).** Continuation of MUS 3650; emphasis will be on technique of playing cello and double bass. Prerequisite: MUS 3650 or consent of instructor.

**MUS 3670 Junior-Level Orchestral Instruments (1 unit).** Continuation of instruction in technical, stylistic, and aesthetic elements of artistic performance. For music majors or minors whose performance medium is strings, woodwinds, brasses, or percussion. May be repeated for a total of 4 units. Prerequisites: MUS 2670 or consent of instructor, and successful completion of a performance examination. (Fall, Spring)

**MUS 3680 Instrumental Techniques (1 unit).** A four-term sequence covering all basic brass, woodwind, and percussion instruments for students planning to enter the teaching credentials program and for the music student who wishes to study a secondary musical instrument. May be repeated for a total of 4 units. Prerequisite: Consent of instructor. (Fall, Spring)

**MUS 3690 Marching Band Techniques (1 unit).** A study of current marching band techniques. Course investigates charting techniques, showmanship, marching styles, and musical literature for the marching band. Outside field work required. Prerequisite: Ability to read music. (As required)

**MUS 4200 Composition (2 units).** Composition in various styles, textures, and instrumental and vocal combinations. The nature and scope of projects will be determined by discussion between instructor and student and will be compatible with the student's needs and abilities. Public performance of original works will be encouraged. May be repeated for a total of 8 units. Prerequisite: Consent of instructor. (Fall, Spring)

**MUS 4210 Advanced Composition (2 units).** For qualified students in need of advanced study in composition. May be repeated for a total of 6 units. Prerequisite: Senior or graduate standing or consent of instructor. (Fall, Spring)

**MUS 4220 Advanced Theory Project (2 units).** For qualified students in need of advanced or specialized study in theory. May be repeated for a total of 6 units. Prerequisites: Senior or graduate standing or consent of instructor. (Fall, Spring)

**MUS 4280 Choral Conducting (2 units).** A continuation of MUS 3270 with emphasis on performance of standard choral literature. Study and application of the interpretive aspect of conducting. May be repeated for a total of 4 units with the consent of the instructor. Prerequisites: MUS 3270 and consent of instructor. (Spring)

**MUS 4290 Instrumental Conducting (2 units).** A continuation of MUS 3270 with emphasis on further development of baton technique. Emphasis will also be placed on rehearsal procedures and methods, interpretation, score reading, and analysis. May be repeated for a total of 4 units with the consent of instructor. Prerequisites: MUS 3270 and consent of instructor. (Spring)

**MUS 4400 Orchestra (1 unit).** The study and performance of standard orchestra music. Students will participate in all public performances; field trips and off-campus performances may be required by the instructor. May be repeated for a total of 8 units. Prerequisite: An acceptable degree of performance skill. (Fall, Spring)

**MUS 4410 Concert Chorale (1 unit).** Study and performance of choral masterworks. Open to all students. A voice test will be given. Students will participate in all public performances; field trips and off-campus performances may be required by the instructor. May be repeated for a total of 8 units. Prerequisites: Ability to read music and an acceptable singing voice. (Fall, Spring)



**MUS 4430 University Chamber Singers (1 unit).** A select vocal ensemble specializing in music written for small choral ensembles. A high level of musicianship is required. Prerequisite: Ability to read music well and consent of instructor. (Fall, Spring)

**MUS 4440 Wind Ensemble (1 unit).** Study and performance of materials for the wind band, and for various combinations of wind and percussion instruments. Students will participate in all public performances; field trips and off-campus performances may be required by the instructor. May be repeated for a total of 8 units. Prerequisite: An acceptable degree of performance skill. (Fall, Spring)

**MUS 4450 Piano Pedagogy (2 units).** Methods and materials for teaching piano at the beginning and the intermediate levels. Prerequisite: consent of instructor. (Fall in alternating years)

**MUS 4451 Piano Literature (2 units).** Study of selected major piano works of representative master composers from Bach to the present. Prerequisite: Consent of instructor. (Spring in alternating years)

**MUS 4480 Jazz Ensemble (1 unit).** Study and performance of materials for the jazz ensemble. Students will participate in jazz concerts and study improvisation; field trips and off-campus performances may be required by the instructor. May be repeated for a total of 8 units. Prerequisite: An acceptable degree of performance skill. (Fall, Spring)

**MUS 4490 Vocal Ensemble (1 unit).** Study and performance of small ensemble literature for two or more voices. This course will from time to time undertake the performance of chamber operas; field trips and off-campus performances may be required by the instructor. Prerequisite: Consent of instructor. (As required)

**MUS 4500 Instrumental Chamber Ensemble (1 unit).** Study and performance of materials for small brass and woodwind ensembles. Students will participate in all public performances; field trips and off-campus performances may be required by the instructor. May be repeated for a total of 8 units. Prerequisites: An acceptable degree of performance skill and consent of the instructor. (As required)

**MUS 4550 Instrumental Literature Seminar (3 units).** Study of literature for orchestra, band, chamber groups, and solo playing, elementary through advanced levels. Students will perform some music and will discuss performance preparation. Prerequisite: Consent of instructor. (Spring)

**MUS 4569 Vocal Literature (1 unit).** A survey of music written for the solo voice from the Middle Ages through the Twentieth Century. Prerequisite: Consent of instructor. (Spring in alternating years)

**MUS 4570 Choral Literature Seminar (2 units).** A study of literature suitable for large and small choral organizations, including music for madrigal groups, glee clubs, and church choirs. Prerequisite: Consent of instructor. (Fall in alternating years)

**MUS 4571 Vocal Pedagogy and Choral Techniques (2 units).** A study of teaching methods and physiology for the applied teacher of voice and the choral conductor, including voice classification procedures, vocalises, and rehearsal and performance management. Prerequisite: Consent of instructor. (Fall in alternating years)

**MUS 4610 Advanced Keyboard (1 unit).** For music majors whose performance medium is a keyboard instrument. Study and performance of an advanced repertoire with emphasis upon development of style and interpretation as well as technique. May be repeated for a total of 8 units. Prerequisites: Successful completion of junior-level performance examination and consent of instructor. (Fall, Spring)

**MUS 4640 Advanced Voice (1 unit).** Vocal technique for the advanced student; study of German lieder, French and Italian repertoire, and solo material in cantata, oratorio, and opera. For music majors whose performance medium is voice. May be repeated for a total of 8 units. Prerequisite: Successful completion of junior-level performance examination. (Fall, Spring)

**MUS 4660 Showband (1 unit).** The study and performance of standard pep band material. The group will perform at home CSUS men's and women's basketball games. Prerequisite: Consent of instructor. (As required)

**MUS 4670 Advanced Orchestral Instruments (1 unit).** Advanced instruction in orchestral instruments; strings, woodwinds, brasses, and percussions. For music majors whose performance medium is in one of these categories. May be repeated for a total of 8 units. Prerequisite: Successful completion of junior-level performance examination. (Fall, Spring)

**MUS 4700 Collegium Musicum (2 units).** Music students will study and apply early music performance practices. Prerequisite: Ability to sing and/or play Renaissance or Baroque instruments. (As required)

**MUS 4710 Introduction to Electronic Music Laboratory (2 units).** A survey of the literature and music related to the field of electronic music with emphasis upon aesthetic and stylistic elements. Instruction is also given in the operation of basic synthesizing equipment. Projects in electronic music composition are required. May be repeated for a total of 4 units. Prerequisite: MUS 2230 or consent of instructor. (As required)

**MUS 4720 Advanced Electronic Music (2 units).** Instruction in advanced synthesis techniques relating to current synthesizer technology. Musical Instrument Digital Interface (IDI), MIDI software and computer music applications for music composition are required. May be repeated for a total of 4 units. Prerequisite: MUS 4710 or consent of instructor. (As required)

**MUS 4733 Elizabethan Feast of Stanislaus (1 unit).** Musical production experience of the Elizabethan period. Performance to include singers, instrumentalists, and actors. Prerequisite: Consent of instructor.

**MUS 4880 Directed Listening (1 unit).** Listening assignments of live performances sponsored through the Music Department. Attendance at a minimum of eighteen concerts per semester is required of each student. The department will provide periodic overviews and discussions of selected repertory performed. (Fall, Spring)

**MUS 4900 Senior Recital or Project (1 unit).** The preparation and presentation of either a public recital or an equivalent project in the music discipline. Students giving Senior Recitals must have at least two semesters of senior-level applied instruction. Students who select the Project Track must have completed at least two semesters of junior-level applied study. Prerequisites: Senior standing and completion of two semesters of applied study at the appropriate level. (Fall, Spring)

**MUS 4910 Cooperative Education (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and department Co-op coordinator. May be repeated for a total of 8 units depending upon the department policy. Prerequisites: Sophomore standing and consent of department chair. (Fall, Winter, Spring)

**MUS 4923 Opera Scenes (3 units).** This class explores preparation and interpretation of performing solos and ensembles from operatic literature. Individual coaching emphasizing fundamentals of acting and singing, interpretation, diction, and movement. Prerequisite: Consent of instructor.

**MUS 4950 Selected Topics in Music (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of music. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor. (Fall, Spring)

**MUS 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor and Department Chair. (Fall, Spring)

### **Postbaccalaureate**

**MUS 5000 Music Bibliography and Research (3 units).** An introduction to problems facing the graduate student in music. This will include methods for dealing with such problems as: attitude and aims of the music scholar, studies in bibliography, reference materials, sources, editions, and editing procedures; included will be oral and written reports, reviews, outline procedures for term papers, articles and theses. Required of all Master of Arts Interdisciplinary Studies candidates in music. Prerequisite: Postbaccalaureate status and consent of instructor. (As required)

**MUS 5100 Analytic Techniques (3 units).** The development of stylistic insight and analytical skills through close historical and analytic examination of music. Examples from Gregorian chant through the present will be studied. Prerequisite: Postbaccalaureate status and consent of instructor. (As required)

**MUS 5210 Advanced Brass Techniques and Materials (2 units).** The purpose of this advanced course is to study, in depth, teaching and performing techniques peculiar to brass instruments; to gain additional proficiency in playing; to study teaching materials suitable for both individual and group instruction; and to review, in depth, standard solo and ensemble literature for these instruments. Prerequisite: Postbaccalaureate status and consent of instructor. (As required)

**MUS 5220 Advanced Woodwind Techniques and Materials (2 units).** This course provides an opportunity for the graduate student to study the techniques peculiar to instruments of the woodwind family; to gain additional proficiency in playing; to study teaching materials suitable for both individual and group instruction; and to become familiar with the standard solo and small ensemble literature of these instruments. Prerequisite: Postbaccalaureate status and consent of instructor. (As required)

**MUS 5230 Choral Arranging (3 units)**, Study of the techniques and methods of arranging music for choirs. Examples of successful choral arrangements will be analyzed. Students will apply acquired skills to selected compositions and melodies. Prerequisite: Postbaccalaureate status and consent of instructor. (As required)

**MUS 5290 Advanced Conducting (2 units)**. The preparation of scores in the media of band, orchestra, and chorus for performance. Special emphasis on effective rehearsal procedure, stylistic values, and score analysis. Prerequisite: Postbaccalaureate status. (As required)

**MUS 5310 Philosophy of Music Education (3 units)**. A survey of contemporary aesthetic, philosophical, psychological, and sociological trends in music education. Prerequisite: Postbaccalaureate status and consent of instructor. (As required)

**MUS 5320 Seminar in Music Education (3 units)**. An orientation to graduate study in music education and a seminar in current problems encountered by music educators in the field. Prerequisite: Postbaccalaureate status and consent of instructor. (As required)

**MUS 5950 Selected Topics in Music (Topics to be specified in Class Schedule) (1–5 units)**. Development of a selected branch of music. Topics may vary each term. Different topics may be taken for credit. Prerequisites: Postbaccalaureate status and consent of instructor. (As required)

**MUS 5960 Graduate Project (2–6 units)**. For qualified postbaccalaureate students. Prerequisites: Postbaccalaureate status and consent of Graduate Committee. (As required)

**MUS 5980 Individual Study (1–4 units)**. For qualified postbaccalaureate students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Postbaccalaureate status, and consent of instructor and Department Chair. (As required)



## Nursing

**Office:** Classroom Building 223, (209) 667-3141  
**Chair:** June Boffman  
**Faculty:** June Boffman, Nancy Clark, Jacqueline B. Johnson (Emeritus), Paula LeVeck

The Department of Nursing offers the Bachelor of Science, Nursing degree. This program is accredited by the National League for Nursing (NLN).

### Bachelor of Science, Nursing

The nursing major provides registered nurses with the broadened educational base necessary both for professional practice and for pursuing a graduate education in nursing. Through this course of study, nurses can

- expand their scope of practice,
- function both independently and interdependently with other health care professionals in a wide variety of settings, *and*
- assume greater responsibility in meeting our society's present and future health care needs.

### Minimum Admission Requirements to the Upper-Division Nursing Major:

Students seeking to enter the program must have:

1. completed 60 semester units of baccalaureate-level transferable college credit.
2. completed a minimum of 30 semester units of nursing course work, earning a 2.0 (C) or better.
3. completed at least half of the University's General Education breadth requirements, including completion of a college-level English composition course
4. completed an acceptable college-level chemistry course, equivalent to CHEM 1000, of at least 3 semester units with a grade of "C" or better
5. a current license as a Registered Nurse in California, *and*
6. file an application to the University.
7. file an application to the Department of Nursing.

By the time classes begin and until graduation, students who are admitted to the nursing major must have individual professional malpractice insurance in force. The minimum coverages must be at least \$1,000,000 each claim and \$2,000,000 aggregate per year. See the *Nursing Student Handbook* for other liability and health requirements.

The University reserves the right to limit the enrollment of students in the nursing major to available space and clinical facilities. All nursing courses except those with clinical components are open to Registered Nurses not admitted to the nursing major,

subject to availability of space and consent of instructor.

## Continuance in the Nursing Major

Students must maintain a minimum grade of "C" in courses constituting the nursing major. With department approval, a student may repeat a nursing course one time. If class enrollment is limited, priority will be given to students who are maintaining regular progression in the program. Students repeating nursing courses must earn grades of "C" or better to remain in the program.

## Requirements

1. Complete requirements for the Bachelor of Science degree (51 units minimum).
2. Complete the major of 37 upper-division units. NURS 3500, 4200, and 4300 must be taken CR/NC. All other courses must be taken for a letter grade.
3. Complete 9 upper-division units which meet the upper-division General Education requirements. Completion of a minor is not required.

## The Major (37 units)

Complete the following courses:

NURS 3000	Health Assessment, 3 units
NURS 3100	Professional Nursing, 3 units
NURS 3200	Pathophysiological Concepts Applied to Nursing, 3 units
NURS 3310	Nursing Leadership and Management, 3 units
NURS 3400	Community Health Nursing, 3 units
NURS 3410	Community Health Nursing Practicum, 4 units
NURS 3500	Nursing Portfolio/Contract Preparation, 1 unit
NURS 3600	Transcultural Nursing Care, 3 units
NURS 4010	Issues Facing the Profession, 3 units
NURS 4100	Introduction to Nursing Research, 3 units
NURS 4200, 4300	Advanced Clinical Nursing I, II, 2 units
NURS 4210, 4310	Advanced Clinical Nursing Practicum I, II, 6 units

*Note: To complete major requirements, a student must fulfill 9 upper-division units which meet the upper-division General Education requirements.*

## Typical Student Program

### Full-Time Track

### Junior Level

<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
NURS 3000 (3)	Electives	NURS 3310 (3)
NURS 3100 (3)		NURS 3400 (3)
NURS 3200 (3)		NURS 3410 (3)
NURS 3600 (3)		NURS 3500 (3)
Electives		Electives

### Senior Level

<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
NURS 4100 (3)	Electives	NURS 4010 (3)
NURS 4200 (1)		NURS 4300 (1)
NURS 4210 (3)		NURS 4310 (3)
Electives		Electives

**Part-Time Tracks**

Fall Entry  
(six semesters)

*Fall*  
NURS 3100 (3)  
NURS 3600 (3)

*Fall*  
NURS 3200 (3)  
GE (3)

*Fall*  
NURS 4100 (3)  
NURS 4200 (3)  
NURS 4210 (3)

Spring Entry  
(seven semesters)

*Fall*  
0 or (GE)

*Fall*  
NURS 3200 (3)  
NURS 3600 (3)

*Fall*  
NURS 4100 (3)  
GE (3)

*Fall*  
NURS 4200 (1)  
NURS 4210 (3)

**First Year**

*Winter*  
Electives

*Spring*  
NURS 3000 (3)  
NURS 3310 (3)

**Second Year**

*Winter*

*Spring*  
NURS 3400 (3)  
NURS 3410 (3)  
NURS 3500 (1)

**Third Year**

*Winter*  
Electives

*Spring*  
NURS 4010 (3)  
NURS 4300 (1)  
NURS 4310 (3)

**First Year**

*Winter*

*Spring*  
NURS 3000 (3)  
NURS 3100 (3)

**Second Year**

*Winter*

*Spring*  
NURS 3310 (3)  
NURS 3400 (3)  
NURS 3410 (3)

**Third Year**

*Winter*  
Electives

*Spring*  
NURS 4100 (3)  
GE (3)

**Four Year**

*Winter*

*Spring*  
NURS 4010 (3)  
NURS 4300 (1)  
NURS 4310 (3)

Spring Entry, Fast Track (five semesters) available.

*Note: NURS 3100 is recommended as the beginning class for part-time students; other first semester courses may be taken simultaneously or G.E. can be taken as needed.*

*Note: All courses are not offered every semester. Full-time students have priority for course enrollment.*

*Note: Students planning to pursue graduate education in nursing should take statistics as one of their electives, since it is required for admission to graduate schools.*

## Course Descriptions

**NURS 2040 Better Health with Self-Care (2 units).** Study of basic human needs in a complex society. Main focus is self-care during health, developmental, and life style changes. Persons will be studied in relation to their psycho-social-cultural and physiological needs. (Lecture, 2 hours) (Fall, Spring)

**NURS 3000 Health Assessment (3 units).** Assists the student in assuming new responsibilities for determining health status and self-care needs of individuals. Focus is on history taking, physical examination, and determining nursing diagnoses. (Lecture, 2 hours; laboratory, 3 hours) (Fall, Spring)

**NURS 3100 Professional Nursing (3 units).** Introduces professional nursing concepts and theories with an emphasis on the self-care model, nursing process, communication, and the teaching role. (Lecture, 2 hours; Discussion, 2 hours) (Fall, Spring)

**NURS 3200 Pathophysiological Concepts Applied to Nursing (3 units).** Focus is on understanding human needs for self-care action, in health and health deviation states, based on scientific principles and concepts using the nursing process. (Lecture, 3 hours) (Fall)

**NURS 3310 Nursing Leadership and Management (3 units).** Focuses on the professional nursing roles of leader, manager, and change agent. Presents theories of group dynamics, leadership, organization, planned change, power and conflict. (Lecture, 3 hours) Prerequisite: NURS 3100. Recommended: CS 1000, CS 1500, CIS 2000 or CS 4000; ENGL 2000 or PHIL 2000. (Spring)

**NURS 3400 Community Health Nursing (3 units).** Theory and principles applied to the nursing role in the promotion of health and prevention of disease. Study of the problems and delivery of care occurs at several levels: individuals, family, community and society. The self-care approach is used in the analysis of health at each level. Prerequisites: NURS 3000, 3100, 3300; completion of or concurrent enrollment in NURS 3200, 3310. (Fall, Spring)

**NURS 3410 Community Health Nursing Practicum (4 units).** Clinical experience in community health agencies under the leadership of nursing faculty. (Laboratory, 12 hours) Concurrent enrollment in NURS 3400 is required. Prerequisites: NURS 3000, 3100, 3300; completion of or concurrent enrollment in NURS 3200, 3310. (Fall, Spring)

**NURS 3500 Nursing Portfolio/Contract Preparation (1 unit).** Students will prepare a professional nursing philosophy, portfolio, and a formal professional learning contract for Clinical Nursing Practicum I. Prerequisites: Completion of NURS 3000, 3100, 3200, 3600. Completion of or concurrent enrollment in NURS 3310, 3400, and 3410. (Must be taken the semester prior to NURS 4200 and 4210.) (Spring)

**NURS 3600 Transcultural Nursing Care (3 units).** Provides the theoretical and experiential foundation for nurses to safely and effectively meet the health care needs of culturally diverse clients in a variety of practice settings. (Lecture 3 hours) (Fall)

**NURS 4010 Issues Facing the Profession (3 units).** Examines issues central to the profession of nursing. Ethics and historical perspectives provide the foundation for student proposals on the future direction of nursing. Advocacy and sociopolitical awareness for nurses is stressed. (Lecture, 3 hours) Prerequisites: Senior standing in



the nursing major. (Spring)

**NURS 4100 Introduction to Nursing Research (3 units).** Introduction to basic concepts of nursing research. Emphasis on evaluation of research and application of findings in nursing practice. (Lecture, 3 hours) Prerequisite: Senior standing in the nursing major or consent of instructor. Statistics is strongly recommended. (Fall)

**NURS 4200 Advanced Clinical Nursing I (1 unit).** Seminar discussion of theoretical components of nursing applied in advanced clinical nursing practicum. Problems and experiences in the clinical setting are correlated with current literature and theories. (Seminar, 1 hour) Prerequisites: NURS 3500; concurrent enrollment in NURS 4210. (Fall)

**NURS 4210 Advanced Clinical Nursing Practicum I (3 units).** Student-designed study focusing on the area of clinical practice of their choice. This is an opportunity for students to explore new areas of practice under the guidance of nursing faculty and community-based preceptors. (Laboratory, 9 hours) Concurrent enrollment in NURS 4200 is required. Prerequisites: NURS 3500 and senior standing in nursing program. (Fall)

**NURS 4300 Advanced Clinical Nursing II (1 unit).** Continuation of NURS 4200. (Seminar, 1 hour). Concurrent enrollment in NURS 4310 is required. Prerequisite: NURS 4200. (Spring)

**NURS 4310 Advanced Clinical Nursing II (3 units).** Continuation of NURS 4210. (Laboratory, 9 hours). Concurrent enrollment in NURS 4300 is required. Prerequisites: Senior standing in nursing program and completion of NURS 4210. (Spring)

**NURS 4600 NCAST II Nursing Child Assessment (4 units).** This course provides an opportunity to gain an understanding of the role of environmental conditions, parent/child characteristics and their interactions. Measurement and meaning of the interaction, as well as identification of problems and interventions will be highlighted. Open to all majors. (Winter)

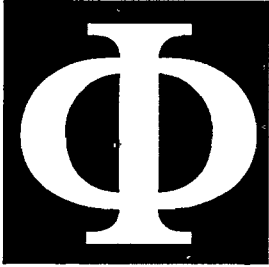
**NURS 4950 Selected Topics in Nursing (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected topic or a set of related topics in nursing. Topics vary each term, thus different topics may be taken for credit to a maximum of 12 units. Prerequisite: Consent of instructor. (Offered on demand)

**NURS 4960 Senior Seminar (1–4 units).** Seminar for seniors in nursing. Review and discussion of selected topics in nursing. Each student is expected to report on an individual project. Prerequisite: Consent of instructor. (Offered on demand)

**NURS 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Offered on demand)

### **Postbaccalaureate**

**NURS 5980 Individual Study (1–4 units).** For qualified postbaccalaureate students in need of advanced or specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor. (Offered on demand)



## Philosophy

**Office:** Library 195, (209) 667-3361

**Chair:** James A. Tuedio

**Faculty:** Valerie Broin, William H. Hayes (Emeritus),  
Eugenia Porto, James A. Tuedio, Andrew  
Young

The philosophy curriculum stresses developing analytical reasoning skills at all stages of course work. The program emphasizes close textual analysis of primary sources and challenging writing exercises that require careful exposition and evaluation of historically significant philosophical positions. This historical emphasis provides a valuable context for studying contemporary philosophies. A secondary goal of the course work is to engender a balance between philosophy's analytical and speculative aspects. Hence, classes stress the practice of sound critical reasoning techniques, which are essential to discerning, formulating, and defending philosophical principles.

### Bachelor of Arts, Philosophy

#### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (9 units):
  - PHIL 2100 Logic, 3 units
  - PHIL 2200 Ancient Philosophy, 3 units
  - PHIL 2230 Modern Philosophy, 3 units
3. Complete the major of at least 26 upper-division units.

#### The Major (26 units)

1. Complete the following courses (26 units):
  - PHIL 3300 Theory of Knowledge, 4 units
  - PHIL 3400 Ethics, 4 units
  - PHIL 3500 Philosophy of Mind, 4 units
  - PHIL 4200 Advanced Studies in the History of Philosophy, 4 units
  - PHIL 4260 Twentieth Century Philosophy, 3 units
  - PHIL 4450 Philosophy of Religion, 4 units, *or*
  - PHIL 4500 Aesthetics, 4 units,
  - PHIL 4960 Senior Seminar, 3 units, *or*
  - PHIL 4990 Senior Thesis, 3 units

#### The Minor

The philosophy minor is designed for students majoring in other fields who desire concentrated study in areas of philosophical thinking considered relevant to personal or professional development.

## Requirements (17 units minimum)

Complete a minimum of 17 units of philosophy course work chosen in consultation with a department adviser. Of these 17 units, at least 11 units must represent upper-division course work (excluding "Classics of Western Philosophy," which may only be applied against the remaining six units of study). Students will be encouraged to tailor their philosophy minor to emphasize philosophical issues and methods deemed relevant to their primary field of interest or chosen profession.

## Liberal Studies Concentration

### Requirements (20 units)

1. Complete 13 units distributed as follows:
  - a. PHIL 1010 Introduction to Philosophy, 3 units, *or*  
PHIL 2100 Logic, 3 units
  - b. PHIL 2200 Ancient Philosophy, 3 units, *or*  
PHIL 2230 Modern Philosophy, 3 units
  - c. PHIL 3300 Theory of Knowledge, 4 units, *or*  
PHIL 3400 Ethics, 4 units, *or*  
HIST 3891 The Oriental Mind, 3 units
  - d. PHIL 4260 20th Century Philosophy, 3 units
2. Complete seven units of upper-division electives, as approved by adviser.

## Course Descriptions

### Lower Division

**PHIL 1010 Introduction to Philosophy (3 units).** Introduction to philosophical method by examining traditional and contemporary philosophical problems. Close textual analysis, with an emphasis on expository argumentative writing assignments. (Fall, Spring)

**PHIL 2000 Philosophical Inquiry (3 units)** Introduction to the practice of philosophical inquiry, emphasizing critical reasoning skills and argumentative writing. Basic instruction in the composition of defensible arguments with an emphasis on philosophical composition and analysis. Prerequisite: Completion of A-1 & A-2 GE requirements. (Formerly MDIS 1020) (Fall, Spring)

**PHIL 2100 Logic (3 units).** Analysis of the methods and principles of deductive reasoning, including traditional logic; introduction to symbolic logic and to principles of inductive reasoning. Prerequisite: ENGL 1000 or equivalent. (Fall)

**PHIL 2200 Ancient Philosophy (3 units).** A study of the main themes and issues in the history of early Western philosophy from the pre-Socratics to the end of the Hellenistic era, emphasizing the writings of Plato and Aristotle.

**PHIL 2230 Modern Philosophy (3 units).** A study of the main themes and issues in the history of 17th and 18th century European philosophy. Special attention will be paid to the close relationship between the development of philosophical ideas during this period and the rise of modern science. Emphasis will be placed on the writings of Descartes, Hume, and Kant. (Fall, Spring)

**PHIL 2400 Contemporary Moral Issues (3 units).** Introduction to major philosophical standpoints in ethics, emphasizing the moral philosophies of Aristotle, Kant, and Mill. Applications and evaluation of these standpoints in the context of contemporary moral issues. Emphasis on critical analysis of personal as well as social issues. (Fall, Spring)

**PHIL 2950 Selected Topics in Philosophy (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected topic in philosophy. Topics generally vary each term. Different topics may be taken for credit.

### **Upper Division**

**PHIL 3010 Classics of Western Philosophy (3 units).** Introduction to the history, methods, and problems of philosophy, for upper-division students. A student wishing to begin a minor or concentration in philosophy at the upper-division level may substitute this course for lower-division course work in philosophy. (Fall, Spring)

**PHIL 3300 Theory of Knowledge (4 units).** Analysis of the concepts of knowledge, truth, belief, evidence, certainty; readings in classical and contemporary theories. Emphasis on problems relating to skepticism and the quest for certainty. Prerequisites: 3 units in philosophy and upper-division standing.

**PHIL 3400 Ethics (4 units).** Analysis of philosophical theories concerning the concepts of right and wrong, good and bad, utility and duty, freedom, obligation, responsibility; readings will be drawn from classical and contemporary sources. Satisfies upper division writing proficiency requirement. Prerequisites: 3 units in philosophy and upper-division standing.

**PHIL 3500 Philosophy of Mind (4 units).** A study of historical and contemporary reflections on the nature of mental experience and the structures of mental processing, and approaches to the “mind-body” problem. Particular attention will be paid to issues of central importance to contemporary philosophers working in the areas of phenomenology and cognitive science. Satisfies upper division writing proficiency requirement. Prerequisites: 3 units in philosophy and upper-division standing.

**PHIL 4150 Cognitive Phenomenology (3 units).** Introduction to phenomenological method as an approach to the study of the mind's relation to its environment. Readings will stress Husserl's theory of intentionality, Merleau-Ponty's phenomenology of perception, and related developments in phenomenological psychology, with a view to understanding the relationship between subjectivity and information processing. Prerequisite: PHIL 3300 or 3500.

**PHIL 4200 Advanced Studies in the History of Philosophy (4 units).** Intensive study of two or three major works by a major thinker in the history of Western philosophy (including evaluation of secondary source material). Texts will be chosen on the merit of the enduring character of their treatment of classic philosophical issues. This course may be repeated for credit, providing the focus and readings do not overlap previous course content. Satisfies upper division writing proficiency requirement. Prerequisites: PHIL 2200, 2230, or equivalent.

**PHIL 4260 Twentieth Century Philosophy (3 units).** Intensive study of themes and issues in epistemology, philosophy of mind, and/or philosophy of language from the standpoints of the Pragmatist, Phenomenological, and Analytic traditions in 20th century philosophy. Prerequisites: PHIL 3300, 3500, or equivalent.

**PHIL 4300 *Philosophy of Language (3 units)***. Intensive study of recent theories of meaning and of the relationship between thought and language. Course themes will include meaning and reference, language games, speech acts, and language as the communication of thoughts, feelings, and information. Discussions will also focus on the application of language theory to problems in the artificial intelligence movement. Prerequisite: PHIL 3300 or 3500.

**PHIL 4401 *Professional Ethics (3 units)***. Intensive study of moral issues and conflicts that arise when one attempts to reconcile the priorities of professional responsibilities and the world of business with those of an ethical frame of mind. Emphasis on issues surrounding the concepts of duty, rights, autonomy, justice, and regulation in the world of business together with extended reflections on the relationship between moral responsibility and the professions (drawing from specific fields like medicine and law). (Fall, Spring)

**PHIL 4450 *Philosophy of Religion (4 units)***. Analysis of religious concepts with emphasis on the logic of religious discourse. Satisfies upper division writing proficiency requirement. Prerequisites: 3 units in philosophy and upper-division standing.

**PHIL 4500 *Aesthetics (4 units)***. Philosophy of art; analysis of aesthetic experience; principles of criticism. Satisfies upper division writing proficiency requirement. Prerequisites: 3 units in philosophy and upper-division standing.

**PHIL 4950 *Selected Topics in Philosophy (Topics to be specified in Schedule of Classes) (1–5 units)***. Development of a selected topic in philosophy. Topics vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

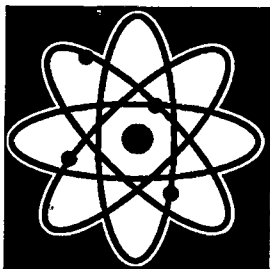
**PHIL 4960 *Senior Seminar (3 units)***. Reading and class discussion leading to the writing, oral presentation, and defense of a philosophical essay by each student. May be repeated once. Prerequisites: Senior standing, advanced course work in philosophy, and consent of instructor. Under exceptional circumstances, juniors may be admitted.

**PHIL 4980 *Individual Study (1–4 units)***. For undergraduate students prepared for independent study to supplement regular course offerings. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

**PHIL 4990 *Senior Thesis (1–4 units)***. Research and critical analysis of a major philosophical theme or issue, emphasizing primary and relevant secondary readings. It is expected that the thesis will include analysis and critique of at least one contemporary philosophical work together with an evaluation of critical responses. Prerequisites: Senior standing and advanced course work in philosophy.

### ***Postbaccalaureate***

**PHIL 5980 *Individual Study (1–4 units)***. For postbaccalaureate students prepared for independent work, and in need of advanced and specialized study in philosophy. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.



## Physics, Physical Sciences and Geology

**Office:** Science Building 256, (209) 667-3466  
**Chair:** Marvin Johnson  
**Faculty:** Tai L. Chow, James M. Goodwin (Emeritus),  
 Marvin W. Johnson, Ervin H. Schwarcz  
 (Emeritus), Lloyd A. Case

The Department of Physics and Geology offers the degrees of Bachelor of Arts and Bachelor of Science, Physics, and Bachelor of Arts, Physical Sciences. A student may pursue a physical sciences major by electing one of the following concentrations: applied physics, earth and space sciences, or environmental sciences. A student may also pursue a physical sciences major without a concentration by completing sufficient upper-division units.

The Department also offers degree minors in the following areas: physical sciences, physics, and microelectronics.

A concentration in physical sciences and in physics for the Bachelor of Arts degree in liberal studies is available. An approved single subject waiver is also available for students who wish to declare physical sciences as their subject matter teaching area.

Students interested in graduate work in physics, physical sciences, or astronomy can earn a Master of Arts or Master of Science degree through the special major program. See the "Graduate Program" section of this catalog for details.

### Bachelor of Science, Geology (See "Geology" section)

### Bachelor of Arts and Bachelor of Science, Physics

The curriculum in physics is designed to give the student a thorough understanding of the fundamentals and modern applications of physics. The Bachelor of Science program prepares the student for graduate school, a career in scientific research and development, or industrial work. It is also intended for those students who wish to prepare for interdisciplinary studies on the graduate level in fields such as astronomy and astrophysics, atmospheric science, biophysics, engineering, environmental science, geophysics, or physical oceanography. The Bachelor of Arts degree program is designed for students seeking to enter professions requiring a moderate training in physics.

The lower-division requirements of both degree programs can also be used to prepare for study in engineering. After completion, the student can transfer to engineering programs for upper-division course work and study in engineering.

## Requirements

1. Complete University requirements for the Bachelor of Arts or Bachelor of Science degree (51 units minimum).
2. Complete the following prerequisites to the major (32–35 units):
  - a. Required courses in major field:
    - PHYS 2250, 2260 General Physics I, II, 8 units
    - PHYS 2252, 2262 General Physics Laboratory I, II, 2 units
  - b. Required courses in supporting fields:
    - i. CHEM 1100, 1110 Principles of Chemistry I, II, 10 units
    - ii. MATH 1410, 1420 Calculus I, II, 8 units  
MATH 2410 Multivariate Calculus, 4 units
    - iii. *Bachelor of Arts students complete additionally:*  
PHYS 2600 Computer Programming with Applications, 2 units, *or*  
CS 1500 Computer Programming I, 3 units
3. Complete the major of not less than 25 upper-division units as specified for the Bachelor of Arts degree, or 34 upper-division units as specified for the Bachelor of Science degree. No courses graded CR may be counted towards the major except for eight units graded exclusively CR/NC.
4. Completion of a minor is not required.

## The Bachelor of Arts Major (24 units)

1. Complete the following courses (21 units):
  - PHYS 3010 Introduction to Mathematical Physics I, 3 units
  - PHYS 3100 Classical Mechanics, 4 units
  - PHYS 3320, 3330 Electricity & Magnetism I, II, 6 units
  - PHYS 3520 Modern Physics & Quantum Mechanics, 3 units
  - PHYS 4102 Advanced Physics Laboratory, 2 units
  - PHYS 4250 Analog and Digital Electronics, 4 units
2. Complete at least three credit hours from the following courses:
  - PHYS 4300 Microprocessor Electronics, 3 units
  - PHYS 4302 Microprocessor Laboratory, 1 unit
  - PHYS 4560 Solid State Physics, 3 units
  - PHYS 4900 Modern Optics & Lasers, 3 units

## The Bachelor of Science Major (35 units)

1. Complete the following courses (32 units):
  - PHYS 3010 Introduction to Mathematical Physics I, 3 units
  - PHYS 3100 Classical Mechanics, 4 units
  - PHYS 3320, 3330 Electricity and Magnetism I, II, , 6 units
  - PHYS 3520 Modern Physics and Quantum Mechanics, 3 units
  - PHYS 4102 Advanced Physics Laboratory, 2 units
  - PHYS 4250 Analog and Digital Electronics , 4 units
  - PHYS 4510 Quantum Mechanics I, 3 units
  - PHYS 4520 Quantum Mechanics II, 3 units
  - PHYS 4530 Thermal and Statistical Physics, 4 units
2. Select three units of upper-division electives in physics and physical sciences.  
*Note: The department recommends the following electives:*
  - PHYS 3020 Introduction to Mathematical Physics II, 3 units
  - PHYS 4300 Microprocessor Electronics, 3 units

PHYS 4302	Microprocessor Laboratory, 1 unit
PHYS 4370	Relativity and Cosmology, 3 units
PHYS 4450	Nuclear and Particle Physics, 3 units
PHYS 4560	Solid State Physics, 3 units
PHYS 4900	Modern Optics & Lasers, 3 units
PHYS 4930	Lasers and Holography, 4 units
ASTR 3000	Contemporary Astronomy, 3 units

## The Minor in Physics

### Requirements (18 units)

Complete 18 units in physics as approved by the minor adviser, to include at least eight units in upper-division.

## The Minor in Microelectronics

The purpose of this degree minor is to provide students with a theoretical and practical understanding of analog/digital signal processing techniques and microprocessor interfacing techniques, with an emphasis on the design and implementation of instrumentation for scientific experiments.

### Requirements (25 units)

- Complete the following lower-division courses (14 units):
 

CS 1500	Computer Programming I, 3 units
CS 2500	Computer Programming II, 3 units
CS 2700	Assembly Language & Computer Architecture, 3 units
PHYS 2260	General Physics II, 4 units
PHYS 2262	General Physics Laboratory II, 1 unit
- Complete the following upper-division courses (11 units):
 

CS 3740	Computer Organization, 3 units
PHYS 4250	Analog and Digital Electronics, 4 units
PHYS 4300	Microprocessor Electronics, 3 units
PHYS 4302	Microprocessor Laboratory, 1 unit

## Liberal Studies Concentration in Physics

### Requirements (20 units)

- Complete the following lower-division courses (5 units):
 

PHYS 2260	General Physics II, 4 units
PHYS 2262	General Physics II Lab, 1 unit
- Complete a minimum of 15 units chosen from upper-division courses in physics upon advisement.

## Bachelor of Arts, Physical Sciences

The Bachelor of Arts, Physical Sciences, is an interdisciplinary degree designed to prepare students for a greater diversity of professions requiring an understanding of the fundamentals of the physical sciences including courses in the following areas: Astronomy, chemistry, environmental sciences, geology, marine sciences, meteorology, and physics.

A student may pursue a physical sciences major by electing one of the following three concentrations: Applied physics, earth and space sciences, or environmental sciences.



A student may also pursue a physical sciences major without a concentration by completing sufficient upper-division units in two areas of interest chosen from astronomy, chemistry, environmental sciences, geology, marine science, and physics. The student should consult with a departmental adviser as to the areas of interest and to the proper selection of courses to suit his or her aims.

Students interested in teaching science in secondary school; environmental design; technical administration in government and industry; laboratory technology; legal work pertaining to patents; or scientific librarianship and journalism, may elect this major as an opportunity to acquire an education tailored to their individual needs.

The physical sciences major whose interest is in marine geology and physical oceanography will be required to enroll in upper-division course work at the Moss Landing Marine Laboratories for fulfillment of major requirements. Refer to the "Marine Science" section of this catalog for description of Moss Landing course offerings.

Physical sciences majors interested in medical school, dental school, and other health professions such as pharmacy, physical therapy, or optometry should work out a plan of study as soon as possible with their major adviser and the Premedical and Health Professions Committee. See the "Premedical and Health Professions" section of this catalog.

## Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (26 units):
  - a. PHYS 2250, 2260 General Physics I, II, 8 units, *and*  
 PHYS 2252, 2262 General Physics Lab I, II, 2 units, *or*  
 PHYS 2100, 2110 Basic Physics I, II, 10 units
  - b. CHEM 1100, 1110 Principles of Chemistry I, II, 10 units
  - c. MATH 1410, 1420 Calculus I, II, 8 units.

*Note: Students interested in earth science and astronomy may substitute:*  
 MATH 1600 Statistics, 4 units  
 PHYS 2600 Computer Programming with Applications, 2 units
3. Complete the major of not less than 24 upper-division units of physical sciences.
4. No courses graded CR may be counted toward the major except for 8 units taken in courses graded exclusively CR/NC.
5. No minor is required.

## The Major

Complete upper-division courses of not less than 24 units by satisfying either 1 or 2 below:

1. The student who pursues a physical sciences major without a concentration must select two areas of interest in physical sciences and complete upper-division courses of not less than 12 units from these areas. The student may, in consultation with the adviser, complete any other courses in physical sciences or mathematics to meet the total required for the major of 24 upper-division units.
2. The student may also pursue a physical sciences major by completing one of the following concentrations and other appropriate upper-division courses to satisfy the total required units for the major of 24 upper-division units.

## Environmental Sciences Concentration

### Requirements (24 units)

1. Complete all requirements of the environmental science concentration, 13 upper-division units.
2. Select an additional 11 upper-division units of courses in consultation with the adviser.

## Space and Earth Sciences Concentration

### Requirements (24 units)

1. Select 12 units from the following:
  - ASTR 3000 Contemporary Astronomy, 3 units
  - ASTR 4200 Planetary and Space Science, 3 units
  - GEOL 3000 Physical and Environmental Geology, 4 units
  - GEOL 3100, 3110 Earth Science I, II, 6 units
  - GEOL 3400 Plate Tectonics, 4 units
  - GEOL 4300 Minerals and Crystals, 3 units
  - GEOL 4600 Geology of Petroleum, 3 units
2. Select 12 upper-division units in physical sciences or mathematics, in consultation with the adviser. One elective course may be chosen from the following:
  - GEOG 3100 Climatology, 3 units
  - GEOG 3700 Cartography, 3 units
  - GEOG 4120 Geomorphology, 3 units

## Applied Physics Concentration

### Requirements (25 units)

1. Complete the following courses (13 units):
  - PHYS 3520 Modern Physics and Quantum Mechanics, 3 units
  - PHYS 4102 Advanced Physics Lab, 2 units
  - PHYS 4250 Analog and Digital Electronics, 4 units
  - PHYS 4930 Lasers and Holography, 4 units
2. Select 12 upper-division units in physical sciences or mathematics, in consultation with the adviser.

## The Minor in Physical Sciences

### Requirements (18 units)

Complete 18 units in physical sciences as approved by the minor adviser, to include at least eight units in upper-division.

## Liberal Studies Concentration in Physical Sciences

### Requirements (20 units)

1. Complete the following lower-division courses (5 units):
  - a. PHYS 2110 Basic Physics II, 5 units, with consent of adviser *or*
  - b. PHYS 2260 General Physics II, 4 units, *and*
  - PHYS 2262 General Physics Lab II, 1 unit

2. Select a minimum of 15 upper-division units chosen from physical science, astronomy, geology, or physics, with consent of the physical science adviser.

### Teaching Credentials

The requirements in physical sciences for students interested in obtaining a single subject teaching credential waiver are listed below. Please refer to the "School of Education" section of this catalog for a description of other requirements to be completed in obtaining a single subject credential.

Students completing the waiver program listed below, plus two more upper division units in Physical Science, will also satisfy the major requirements for a Bachelor of Arts in Physical Sciences.

### Physical Science Waiver Program (49 units)

#### 1. Core Subject Units (34 units)

Select courses from the following as outlined below:

##### a. Chemistry (14 units)

CHEM 1100 Principles of Chemistry I, 5 units

CHEM 1110 Principles of Chemistry II, 5 units

CHEM 3010 Organic Chemistry I, 3 units

CHEM 3012 Organic Chemistry I Lab, 1 unit

##### b. Physics (13 units)

PHYS 2250 General Physics I, 4 units

PHYS 2260 General Physics II, 4 units

PHYS 2252 General Physics Lab I, 1 unit

PHYS 2262 General Physics Lab II, 1 unit

PHYS 3520 Modern Physics and Quantum Mechanics, 3 units

##### c. Earth Science and Astronomy (7 units)

ASTR 2100 Descriptive Astronomy, 3 units

GEOL 2100 Principles of Geology, 3 units

GEOL 2102 Principles of Geology Lab, 1 unit

#### 2. Breadth/Depth Units (select 15 units)

ASTR 3000 Contemporary Astronomy, 3 units

ASTR 4200 Planetary and Space Science, 3 units

CHEM 3020 Organic Chemistry II, 3 units

CHEM 3022 Organic Chemistry II Lab, 1 unit

CHEM 4010 Physical Chemistry I, 3 units

CHEM 4020 Physical Chemistry II, 3 units

CHEM 4032 Physical Chemistry Lab, 1 unit

CHEM 4200 Advanced Inorganic Chemistry, 3 units

CHEM 4400 Biochemistry, 3 units

GEOL 3100 Earth Science I, 3 units

GEOL 3110 Earth Science II, 3 units

GEOL 3400 Plate Tectonics, 4 units

GEOL 4300 Minerals and Crystals, 3 units

GEOL 4600 Geology of Petroleum, 3 units

PHYS 3010 Introduction to Mathematical Physics I, 3 units

PHYS 3100 Classical Mechanics, 4 units

PHYS-3320 Electricity and Magnetism I, 3 units

PHYS 3330	Electricity and Magnetism II, 3 units
PHYS 3800	Fundamentals of Nuclear Energy, 3 units
PHYS 4102	Advanced Physics Lab, 1 unit
PHYS 4250	Analog and Digital Electronics, 4 units

## Course Descriptions

### *Physics: Lower Division*

**PHYS 1000 Exploring Modern Electronics (3 units).** Presents a broad introduction to modern electronics and provides the essential background and technique for those students who wish to explore the electronics field; application of basic concepts and construction techniques to electronic devices, such as radios, sound systems, and music synthesizers. (Lecture, 2 hours; activity, 2 hours).

**PHYS 1500 Energy and Matter (3 units).** Survey of the basic concepts and principles of physics. Topics will range from classical Newtonian mechanics to modern theories of the atom and the nucleus. (Lecture, 3 hours) (Fall, Spring)

**PHYS 1502 Energy and Matter Laboratory (1 unit).** Optional laboratory to accompany PHYS 1500. Prerequisite: PHYS 1500 or concurrent enrollment in PHYS 1500. (Fall, Spring)

**PHYS 2000 Basic Solid State Electronics (3 units).** Basic DC and AC circuit theory; elements of semiconductors and transistors; operation of semiconductor diodes, transistor switches, operational amplifiers, and oscillators; introduction to integrated circuits and digital electronics. (Lecture, 3 hours) Prerequisite: Consent of instructor.

**PHYS 2002 Basic Solid State Electronics Lab (1 unit).** Laboratory to accompany PHYS 2000. Prerequisite: PHYS 2000 or concurrent enrollment in PHYS 2000 or consent of instructor.

**PHYS 2100 Basic Physics I (5 units).** General physics without using calculus, Newtonian mechanics, wave motion, heat, and thermodynamics. Designed for general students and for students preparing for biology or medicine. (Lecture, 3 hours; discussion, 1 hour; laboratory, 3 hours) (Formerly 1100). Prerequisites: Algebra and trigonometry, or consent of instructor. (Fall)

**PHYS 2110 Basic Physics II (5 units).** Continuation of PHYS 2100. Electricity and magnetism, light, optics, atoms, and nuclei. (Lecture, 3 hours; discussion, 1 hour; laboratory, 3 hours) (Formerly 1110). Prerequisite: PHYS 2100. (Spring)

**PHYS 2250 General Physics I (4 units).** Calculus-based general physics course for science and mathematics majors. It covers basic mechanics, including motion in a plane, conservation of energy and momentum, rotational motion and angular momentum, harmonic motion and gravitation. Prerequisites: Precalculus and concurrent enrollment in MATH 1410. (Fall)

**PHYS 2252 General Physics Laboratory I (1 unit).** Laboratory to accompany PHYS 2250. Prerequisite: PHYS 2250 or concurrent enrollment in PHYS 2250. (Formerly 2350) (Fall)

**PHYS 2260 General Physics II (4 units).** Continuation of PHYS 2250. Covers electricity and magnetism, including electrostatics, basic circuits, magnetostatics, Faraday's Law and Induction, and electromagnetic oscillations. Prerequisite: PHYS 2250 and concurrent enrollment in MATH 1420. (Spring)

**PHYS 2262 General Physics Laboratory II (1 unit).** Laboratory to accompany PHYS 2260. Prerequisite: PHYS 2260 or concurrent enrollment in PHYS 2260. (Formerly 2360) (Spring)

**PHYS 2270 General Physics III (4 units).** Continuation of PHYS 2260, covering thermodynamics, waves, optics, and introductory quantum mechanics. Prerequisites: PHYS 2260 and MATH 1420

**PHYS 2272 General Physics Laboratory III (1 unit).** Continuation of PHYS 2262, covering thermodynamics, waves and optics, and modern physics. (Formerly 2370) Prerequisites: PHYS 2260 and MATH 1420.

**PHYS 2600 Computer Programming with Applications (2 units).** Programming in BASIC with emphasis on practical applications in the sciences and the use of mini- and micro-computers. (Lecture, 1 hour; laboratory, 3 hours) Prerequisite: Consent of instructor.

### **Physics: Upper Division**

**PHYS 3010 Introduction to Mathematical Physics I (3 units).** Matrix algebra, tensors, formulations of the partial differential equations of classical and quantum physics, and the mathematical methods required for their solutions; integral transformations, theory of residues and conformal mapping, special functions. Examples are given from all fields of physics. (Lecture, 3 hours) Prerequisite: PHYS 2260. (Fall)

**PHYS 3020 Introduction to Mathematical Physics II (3 units).** Continuation of PHYS 3010. Prerequisite: PHYS 3010. (Spring)

**PHYS 3100 Classical Mechanics (4 units).** Dynamics of particles and rigid bodies, gravitation. Lagrangian and Hamiltonian dynamics, theory of oscillations, and the wave equation. (Lecture, 4 hours) Prerequisite: PHYS 2260. (Fall)

**PHYS 3320 Electricity and Magnetism I (3 units).** Electrostatics, magnetostatics, electric current, electromagnetic induction, Maxwell's equations, electromagnetic waves, radiative reaction, electric and magnetic properties of materials, properties of wave guides. (Lecture, 3 hours) Prerequisite: PHYS 2260. (Fall)

**PHYS 3330 Electricity and Magnetism II (3 units).** Continuation of PHYS 3320. Prerequisite: PHYS 3320. (Spring)

**PHYS 3520 Modern Physics and Quantum Mechanics (3 units).** Special relativity, origin of quantum theory, the nuclear atom and Bohr theory, elements of quantum mechanics and applications, atomic and nuclear physics, some properties of solids, and elementary particles. (Lecture, 3 hours) Prerequisite: PHYS 2260 or consent of instructor. (Spring)

**PHYS 3800. Fundamentals of Nuclear Energy (3 units).** An introduction to the concepts, principles, systems and applications of nuclear processes; structure of atoms and nuclei; radioactivity, nuclear reactions, fission, fusion, nuclear systems, radioactive waste disposal, biological effects of radiation, and applications of nuclear radiation to biology, agriculture, art, and archeology. (Lecture, 3 hours) Prerequisite: A lower-division science course. (Fall, Spring)

**PHYS 4000 Modern Astrophysics (3 units).** Application of modern physics to the study of stellar structure and stellar evolution; white dwarfs, neutron stars, pulsars and black holes; x-ray, gamma-ray, and gravitational radiation; quasars, formation of galaxy, and basic cosmological models. (Lecture, 3 hours) Prerequisite: PHYS 2110 or consent of instructor.

**PHYS 4102 Advanced Physics Laboratory (1 unit).** Project type experiments in mechanics, heat, electricity, and magnetism, optics, atomic physics, nuclear physics, etc. (Laboratory, 3 hours) Prerequisite: PHYS 3520 or consent of instructor. This course may be repeated for a maximum of 6 units.

**PHYS 4250 Analog and Digital Electronics (4 units).** This course is an introduction to analog and digital electronics. Topics will be chosen from the following: AC and DC circuit analysis, diodes, transistors and operational amplifiers, feedback, active filters, transducers, Boolean logic, basic gates, sequential logic, flip-flops, counters, and an introduction to microprocessors. (Lecture, 3 hours; laboratory, 3 hours) (Formerly 4210 and 4220). Prerequisite: PHYS 2260. (Fall)

**PHYS 4300 Microprocessor Electronics (3 units).** Basic concepts and principles of microcomputer designs; microprocessor programming and operation; input and output; interfacing with other circuits, including analog-to-digital and digital-to-analog conversions. (Lecture, 3 hours) Prerequisite: PHYS 2000 or 2260. (Spring)

**PHYS 4302 Microprocessor Laboratory (1 unit).** Laboratory to accompany PHYS 4300. Prerequisite: PHYS 4300 or concurrent enrollment in PHYS 4300. (Spring)

**PHYS 4370 Relativity and Cosmology (3 units).** Introduction to the physical basis and mathematical formulation of general relativity, experimental tests of general relativity, gravitational waves, gravitational collapse, cosmological implications of recent developments in general relativity. (Lecture, 3 hours) Prerequisite: PHYS 3520 or consent of instructor.

**PHYS 4400 Computer Simulation Methods in Physics (3 units).** An introduction to computer simulation methods, with applications to physical systems. The course is organized with two weekly lectures in which the programming methods are presented. The lab is project-oriented and allows students the freedom to work at their own pace and to pursue problems consistent with their own interests and background. (Lecture, 2 hours; laboratory, 3 hours). Prerequisite: PHYS 2270.

**PHYS 4450 Nuclear and Particle Physics (3 units).** Elements of nuclear structure; nuclear transformation; nuclear models; electromagnetic, weak, and strong interactions; properties of Leptons and Hadrons; symmetries and conservation laws; resonance particles, quarks and subhadronic particles; tools of nuclear and particle physics research. (Lecture, 3 hours) Prerequisite: PHYS 2260 or consent of instructor.

**PHYS 4510 Quantum Mechanics I (3 units).** Development of Schrodinger's equation and its interpretations. Mathematical techniques for solution of problems in one and three dimensions. Perturbation and scattering theory. Solution of the hydrogen atom problem. Application to atomic phenomena. (Lecture, 3 hours) Prerequisite: PHYS 3520 or consent of instructor. (Fall)

**PHYS 4520 Quantum Mechanics II (3 units).** Continuation of PHYS 4510. Prerequisite: PHYS 4510. (Spring)

**PHYS 4530 Thermal and Statistical Physics (4 units).** Thermodynamics and statistical mechanics. A unified approach following Gibbs, based on a microscopic description using quantum states. Fermi, Bose, and "Classical" systems are discussed with applications to standard and current topics. (Lecture, 4 hours) Prerequisite: PHYS 3520 or consent of instructor.

**PHYS 4560 Solid State Physics (3 units).** Crystal structure, metal crystals, molecular crystals. Thermal, electrical, magnetic properties of crystals. Free electron model of metals, band theory of solids. (Lecture, 3 hours) Prerequisite: PHYS 3520 or consent of instructor.

**PHYS 4900 Modern Optics and Lasers (3 units).** Principles of geometrical optics, reflection, refraction, polarization, coherence and interference, Kirchhoff's diffraction theory, Fourier methods in optics, optics of solids, lasers and holography. (Lecture, 3 hours) Prerequisite: PHYS 2260 or consent of instructor.

**PHYS 4930 Lasers and Holography (4 units).** Interference and coherent light, holographic recording and image reconstruction, properties of holograms and a geometric interpretation, semi-classical radiation fields, coherence theory, induced and spontaneous emission, theories and properties of lasers. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: Upper-division standing or consent of instructor.

**PHYS 4950 Selected Topics in Physics (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of physics. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Upper-division standing or consent of instructor.

**PHYS 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Upper-division standing and consent of instructor.

**PHYS 4990 Undergraduate Thesis (1–2 units).** Undergraduate thesis research. May be repeated for a total of 3 units. Prerequisites: Senior status with a major in physics, and GPA of 3.25 in all physics major courses completed at CSU Stanislaus.

### **Postbaccalaureate**

**PHYS 5960 Graduate Project (1–6 units).** For qualified students seeking a specialized project. Prerequisites: Consent of instructor and graduate adviser.

**PHYS 5990 Thesis (1–6 units).** Master's thesis research. May be repeated for a total of 6 units. Prerequisites: Classified graduate standing in M.A. Special Major Program and consent of graduate committee.

### ***Physical Sciences: Lower Division***

***PHSC 1000 Solar Energy Today (3 units)***. Survey of the direct use of sunlight to supply the basic human needs for energy; bring students up to date on work to the present time on the broad spectrum of solar energy utilization. (Lecture, 3 hours) (Fall, Spring)

***PHSC 1300 Environmental Pollution (3 units)***. Survey of the pollution of the air, water, and land environment. The physical and chemical aspects of pollution by chemicals, pesticides, wastes, radioactivity, heat, and noise. Nuclear energy and radioactive pollution, solar energy and other alternative energies and their environmental effects. (Lecture, 3 hours) (Fall, Spring)

***PHSC 2000 Introduction to Earth Science (3 units)***. Presents non-science majors with a unified interdisciplinary study of the Earth. Diverse topics are drawn from geology, meteorology, and oceanography. (Lecture, 3 hours)

***PHSC.2100 Atmosphere, Weather, and Climate (3 units)***. An introduction to weather and climate phenomena, with emphasis on the weather events that occur in California. Basic principles concerning behavior of the atmosphere and the physical processes underlying weather phenomena. Topics include cloud forms, precipitation, pollution, storms, weather maps, and elementary weather forecasting. (Lecture, 3 hours) (Fall)

### ***Physical Sciences: Upper Division***

***PHSC 3000 Energy, Ecology, and Environment (3 units)***. Fundamental physical science aspects of environmental science. Topics include air pollution and associated atmospheric science, water pollution, nuclear energy and radioactive pollution, thermal pollution, and other environmental subjects. (Lecture, 3 hours) Prerequisite: Upper-division standing or consent of instructor.

***PHSC 3500 Solar and Other Alternative Energies (3 units)***. Introduces the various techniques for utilizing solar energy and brings the students up to date on work to the present time on the broad spectrum of solar energy systems. Other alternative energy sources such as fission and fusion powers, geothermal energy, energy from the wind and from solid waste will also be included. (Lecture, 4 hours) Prerequisite: Upper-division standing or consent of instructor. (Fall, Spring)

***PHSC 4910 Cooperative Education (2–4 units)***. This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisite: Sophomore standing and consent of departmental coordinator.

***PHSC 4940 Physical Science Internship (1–4 units)***. For students in physics and physical science who wish to apply their educational experience to a practical situation in public or private agency. Prerequisites: Consent of the Internship Coordinator and upper-division standing.



**PHSC 4950 Selected Topics in Physical Sciences (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of physical science. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**PHSC 4960 Physical Sciences Seminar (1 unit).** Presentation and discussion of selected topics in physical sciences from current literature. May be repeated for credit. Prerequisite: Consent of instructor.

**PHSC 4980 Individual Study (1–4 units).** For students capable of independent work in need of advanced and specialized study. The Physical Sciences department encourages students to submit proposals in areas of their interest. Proposals should outline their projects and exhibit concrete plans for their successful completion. May be repeated for a total of 6 units. Prerequisites: Upper-division standing and consent of instructor.

### ***Astronomy: Lower Division***

**ASTR 2100 Descriptive Astronomy (3 units).** Development of astronomical thought from Ptolemy to Einstein; the earth and the moon; atoms; light and the tools of astronomers; planets, comets, and meteors; the sun, stars, stellar evolution; galaxies and cosmology. (Lecture, 3 hours) Audio-tutorial program and materials available every semester; features self-paced study and individual tutoring. Students interested in audio-tutorial program should contact the department. (Fall, Spring)

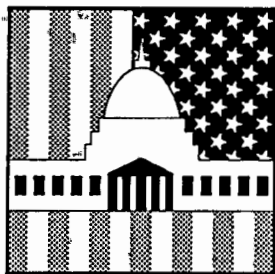
**ASTR 2112 Astronomy Laboratory (1 unit).** Telescope observations of the moon, planets, their satellites, and sunspots. Laboratory experiments related to astronomy. Prerequisite: ASTR 2100 or concurrent enrollment in ASTR 2100. (Fall or Spring)

### ***Astronomy: Upper Division***

**ASTR 3000 Contemporary Astronomy (3 units).** A survey of recent developments in astronomy; gamma ray, x-ray, ultraviolet, infrared, and gravitational astronomy; stars, interstellar molecules, stellar evolutions, neutron stars, pulsars, and black holes; galaxies, radio galaxies, quasars; new trends in cosmological thinking, new findings of space programs about the planets and the sun. (Lecture, 3 hours) Prerequisite: Upper-division standing or consent of instructor. (Fall, Spring)

**ASTR 4000 Astrophotography (2 units).** Theory of the photographic process; astrophotography of the moon, planets, star clusters and galaxies; photographic photometry; reduction of photographic data. (Lecture, 1 hour; activity, 2 hours)

**ASTR 4200 Planetary and Space Science (3 units).** Study of the structure and origin of the planets and their atmosphere. Emphasis will be placed on new developments of NASA space programs. (Lecture, 3 hours) Prerequisite: ASTR 2100 or consent of instructor.



## Politics and Public Administration

**Office:** Classroom Building 132, (209) 667-3388  
**Chair:** Steven W. Hughes  
**Faculty:** Kenneth Entin, Lawrence L. Giventer, April A. Hejka-Ekins, Judith J. Hendricks, Steven W. Hughes, William E. Neeley, Gary C. Shaw, John T. Wold

The Department of Politics and Public Administration offers the Bachelor of Arts, Political Science and Master of Public Administration (MPA) degrees. The department also sponsors an undergraduate concentration in Public Administration and minors in Political Science and Public Administration. Consult the "Graduate Studies in Public Administration" section for an explanation of MPA program requirements and course offerings.

The department provides support for numerous programs on campus, including social sciences, liberal studies, international studies, and Latin American studies. For further information, see the appropriate sections of this catalog.

The Public Service Internship Program enables undergraduate and graduate students to gain practical experience in a professional setting. Students are assigned to administrative, legislative, legal, and political agencies. Interns normally work 16–20 hours per week and receive academic credit through a special seminar or individual study.

### Bachelor of Arts, Political Science

The principal objectives of the undergraduate programs are:

- To expose students to diverse concepts and theories in the major sub-areas of the discipline.
- To encourage students to think critically and creatively about politics.
- To provide appropriate pre-professional instruction for students who intend to enter graduate school, pursue a career in law or governmental affairs, or study for a teaching credential.

### *Careers in Law*

Students who are interested in entering the legal profession are strongly encouraged to contact the prelaw adviser in the Department of Politics and Public Administration. The department suggests that prelaw students pursue an undergraduate program which provides (1) a knowledge of the foundations of human institutions and values; (2) a high degree of competency in analytical skills; and (3) effectiveness in comprehension and use of the English language.

Most law schools currently admit applicants with the highest overall grade point average and Law School Admission Test (LSAT) scores. The importance of high grades in academic subject areas and a respectable score on the LSAT cannot be overstressed. Prewlaw students should take the LSAT in the fall semester of the year preceding their anticipated admission to law school. Applications for the LSAT are available in the Department of Politics and Public Administration. (See below for a list of recommended courses.)

### ***Careers in Government, Public Agencies, and Private Organizations***

The political science major and the concentration in public administration focus on the political/administrative process and the theoretical underpinnings of the discipline. Courses cover a wide range of subjects and should appeal to students interested in politics and administration at all levels.

### ***Careers in Foreign Affairs***

The department offers courses for students interested in the foreign service, international organizations, and international business.

### **Requirements**

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (6–10 units):
  - a. Required courses in the major field (6 units):
    - PSCI 1201 American Government, 3 units
    - PSCI 2000 Introduction to Political Science, 3 units (recommended), *or*
    - PSCI 2030 Global Politics, 3 units
  - b. Strongly recommended:
    - MATH 1600 Statistics, 4 units
3. Complete the following courses:
  - PSCI 3000 Ancient & Medieval Political Thought, *or*
  - PSCI 3010 Modern Political Thought, 3 units
  - One 3000–level course from each of the following fields: American Politics, Comparative Politics, International Relations, 9 units
  - Courses in Political Science as approved by major adviser, 18 units

*Strongly recommended:*

  - PSCI 4600 Statistical Analysis for Politics, 4 units
4. Completion of a minor is not required. Eight units of CR-graded course work in courses graded exclusively CR/NC may apply toward the major.

### ***Political Theory and Methodology***

- PSCI 3000 Ancient & Medieval Political Thought, 3 units
- PSCI 3010 Modern Political Thought, 3 units
- PSCI 3030 American Political Thought, 3 units
- PSCI 3055 Marx on the Human Condition, 3 units
- PSCI 4600 Statistical Analysis for Politics, 4 units

### ***American Politics***

- PSCI 3210 Legislative Process, 3 units
- PSCI 3220 Constitutional Law, 4 units
- PSCI 3225 Civil Liberties, 3 units
- PSCI 3230 Political Parties & Interest Groups, 4 units
- PSCI 3235 Political Campaigns and Elections, 3 units
- PSCI 3250 Public Opinion & Voting Behavior, 4 units
- PSCI 3300 Introduction to Public Administration, 3 units
- PSCI 3320 Executive Legislative Relations, 3 units
- PSCI 3330 California Politics, 3 units

PSCI 4220	Simulation—Supreme Court Decision Making, 3 units
PSCI 4230	The Chief Executive, 3 units
PSCI 4300	Organization Theory, 4 units
PSCI 4305	Changing Sex Roles in Organizations, 3 units
PSCI 4315	Public Policy Making, 3 units
PSCI 4325	Land Use Planning, 3 units
PSCI 4330	Urban Politics, 4 units
PSCI 4340	Political Demography, 3 units
PSCI 4350	Government, Business and the Economy, 3 units
PSCI 4940	Public Administration Internship, 3 units

### **Comparative Politics**

PSCI 3410	Comparative Politics: Latin America, 4 units
PSCI 3450	Comparative Politics: Eastern Europe, 3 units
PSCI 3470	Comparative Politics: Asia, 3 units

### **International Relations**

PSCI 3600	International Relations, 4 units
PSCI 4630	International Politics of Industrial Societies, 3 units
PSCI 4640	Foreign Policy Issues, 3 units
PSCI 4680	U.S.—Latin American Relations, 4 units

### **Specialized Courses**

PSCI 4950	Selected Topics in Political Science, 1–5 units
PSCI 4980	Individual Study, 1–4 units

### **Interdisciplinary**

PSCI 4700	The Political Novel, 4 units
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### **Postbaccalaureate**

PSCI 5000	International Relations Seminar, 4 units
PSCI 5980	Individual Study, 1–4 units
PSCI 5990	Thesis, 1–6 units

## **Public Administration Concentration Within the B.A. Degree, Political Science**

Concentration Adviser: Kenneth Entin

### **Requirements**

1. Complete the following prerequisites in the major field (6 units):

PSCI 1201	American Government, 3 units
PSCI 2000	Introduction to Political Science, 3 units (recommended) <i>or</i>
PSCI 2020	Politics and Society, 3 units

*Note: Completion of the following course is strongly recommended: MATH 1600 Statistics, 4 units*

2. Complete the following courses in the political science core (9–11 units)

PSCI 3000	Ancient & Medieval Political Thought, 3 units <i>or</i>
PSCI 3010	Modern Political Thought, 3 units
	One 3000–level course in International Relations, 3–4 units
	One 3000–level course in Comparative Politics, 3–4 units

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3. Complete the following courses in the public administration core (16 units)
  - a. PSCI 3300 Introduction to Public Administration, 3 units
  - b. Four of the following courses:
    - PSCI 3030 American Political Thought, 3 units
    - PSCI 4300 Organization Theory, 4 units
    - PSCI 4315 Public Policy Making, 3 units
    - PSCI 4325 Land Use Planning, 3 units
    - PSCI 4340 Political Demography, 3 units
4. Complete two of the following courses not taken above, (6–8 units)
  - PSCI 3030 American Political Thought, 3 units
  - PSCI 3210 Legislative Process, 3 units
  - PSCI 3220 Constitutional Law, 4 units
  - PSCI 3225 Civil Liberties, 3 units
  - PSCI 3320 Executive Legislative Relations, 3 units
  - PSCI 3330 California Politics, 3 units
  - PSCI 4230 The Chief Executive, 3 units
  - PSCI 4305 Changing Sex Roles in Organizations, 3 units
  - PSCI 4315 Public Policy Making, 3 units
  - PSCI 4325 Land Use Planning, 3 units
  - PSCI 4330 Urban Politics, 4 units
  - PSCI 4340 Political Demography, 3 units
  - PSCI 4350 Government, Business and the Economy, 3 units
  - PSCI 4600 Statistical Analysis for Politics, 4 units
  - PSCI 4940 Public Administration Internship, 3 units
5. Complete two of the following courses in supporting fields (6 units)
  - ECON 4050 Comparative Economic Systems, 3 units
  - ECON 4100 Labor Economics, 3 units
  - ECON 4415 International Economics, 3 units
  - ECON 4540 Public Finance & Fiscal Policy, 3 units
  - ECON 4600 Urban Economics, 3 units
  - HIST 3640 Contemporary America, 3 units
  - SOCL 4800 Formal Organizations in Modern Society, 3 units
  - SPCH 3120 Management Communication, 3 units
  - SPCH 4110 Organization Communication, 3 units
6. Complete other electives chosen in consultation with the academic adviser to total at least 33 upper-division units in political science.

## Minor in Political Science

### Requirements (19 units)

1. Complete the following courses (6 units):
  - PSCI 1201 American Government, 3 units
  - PSCI 2000 Introduction to Political Science, 3 units
2. Complete upper-division courses as approved by the minor adviser for 13 units.

## Minor in Public Administration

### Requirements (18 units minimum)

1. Complete the following course (3 units):  
PSCI 1201 American Government, 3 units
2. Complete the following upper-division courses (18 units minimum):
  - a. PSCI 3300 Introduction to Public Administration, 3 units
  - b. Five of the following courses:
    - PSCI 3030 American Political Thought, 3 units
    - PSCI 4300 Organization Theory, 4 units
    - PSCI 4315 Public Policy Making, 3 units
    - PSCI 4325 Land Use Planning, 3 units
    - PSCI 4340 Political Demography, 3 units
    - PSCI 4600 Statistical Analysis for Politics, 4 units

## Liberal Studies Concentration in Political Science

### Requirements (20 units)

Complete 20 units, including at least 15 upper-division units.

1. Complete one of the following courses (3 units):  
PSCI 2000 Introduction to Political Science, 3 units *or*  
PSCI 2030 Global Politics, 3 units
2. At least two upper-division courses selected from the area of Comparative/International Politics (6–8 units).
3. At least two upper-division courses selected from the area of American Politics (6–8 units).
4. Complete upper-division electives to complete the 20 units (1–5 units).

## Teaching Credentials

An approved single subject waiver is available for students who wish to declare government as their subject matter teaching area. Students must plan their academic program carefully with their adviser in order to complete the approved waiver program at the time of graduation.

## Prelaw Courses

**Prelaw Adviser:** John T. Wold

Departmental majors contemplating a career in law should consider, in addition to the basic degree requirements, the following courses. The prelaw adviser will provide an additional list of complementary courses upon request.

### *American Politics (Public Law)*

- PSCI 3220 Constitutional Law, 4 units
- PSCI 3225 Civil Liberties, 3 units
- PSCI 4220 Simulation—Supreme Court Decision Making, 3 units

### *American Politics*

- PSCI 3030 American Political Thought, 3 units
- PSCI 3210 Legislative Process, 3 units

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- PSCI 3230 Political Parties and Interest Groups, 4 units
- PSCI 3235 Political Campaigns and Elections, 3 units
- PSCI 3320 Executive Legislative Relations, 3 units
- PSCI 3330 California Politics, 3 units
- PSCI 4230 The Chief Executive, 3 units
- PSCI 4315 Public Policy Making, 3 units
- PSCI 4325 Land Use Planning, 3 units
- PSCI 4330 Urban Politics, 4 units
- PSCI 4350 Government, Business, and the Economy, 3 units

## Course Descriptions

### *Lower Division*

**PSCI 1201 American Government (3 units).** Critical analysis of American political structures and processes. Meets U.S. Constitution and California state and local government requirements for General Education. (CAN GOVT 2) (Fall, Spring)

**PSCI 2000 Introduction to Political Science (3 units).** Examination of the foundations of political science and political behavior in the West. Emphasis is placed on broadening the understanding of political science as a discipline. Recommended for majors. (Fall)

**PSCI 2020 Politics and Society (3 units).** An examination of the translation of social concerns into political conflicts. The development of mass ideologies and mass political movements, both historical and contemporary, will be considered.

**PSCI 2030 Global Politics (3 units).** An introduction to the basic characteristics of the modern interdependent world: interdependence, multiple perspectives, cultural diversity, ideological diversity, world capitalism, global politics, socialist revolution.

**PSCI 2900 Library Resources and Bibliographic Control for Research in Political Science (2 units).** Survey of abstracts, bibliographies, biographical directories, book review indexes, dictionaries, documents, encyclopedias, and indexes for historical research; and the application of footnote and bibliographical methods for political science majors. (Same as HIST 2900)

**PSCI 2950 Selected Topics in Political Science (Topics to be specified in Class Schedule) (1-5 units).** Development of a selected branch of political science. Topics may vary each term. Different courses may be taken for credit. Prerequisite: Consent of instructor.

### *Upper Division*

**PSCI 3000 Ancient & Medieval Political Thought (3 units).** Historical development of political philosophy from ancient times to seventeenth century. Prerequisite: PSCI 1201.

**PSCI 3010 Modern Political Thought (3 units).** Political thought from the seventeenth century to present, with emphasis on such European philosophers as Hobbes, Locke, Rousseau, and Marx. Satisfies upper division writing proficiency requirement. Prerequisite: PSCI 1201.

**PSCI 3030 American Political Thought (3 units).** Examination of selected American views of political life. Individuals or movements from the following list will be selected and analyzed: Puritanism, Jefferson, Madison, Hamilton, Marshall, the Jacksonians, Pro- and Anti-Slavery Thought, Populism, Progressivism, Nativism and the Ethnic Experience, Black Political Thought, Contemporary Conservatism.

**PSCI 3055 Marx on the Human Condition (3 units).** This course will examine the human condition from the perspective of Marx. The focus in the course will be on the relationship between the individual and society. Topics for consideration include capitalism, alienation, wealth and poverty, power and the powerless. The course will end with an examination of the individual in socialist societies.

**PSCI 3210 Legislative Process (3 units).** An examination of the organization and operation of the United States Congress. Emphasis is placed on legislative behavior, committee decision-making, leadership strategies, and congressional reform. Prerequisite: PSCI 1201. (Fall)

**PSCI 3220 Constitutional Law (4 units).** A study of the nature and scope of judicial review in American politics, focusing specifically on the development of lines of precedence in the areas of presidential and congressional power, federalism, equal protection and privacy. Prerequisite: PSCI 1201.

**PSCI 3225 Civil Liberties (3 units).** An examination of selected issues in American civil liberties, emphasizing such areas as speech, press, religion, and criminal procedures. Designed especially for prelaw students. Prerequisite: PSCI 1201.

**PSCI 3230 Political Parties and Interest Groups (4 units).** Study of the organization and activities of political parties and interest groups in the American political system. Emphasis is placed on the varieties and techniques of interest groups, the role of parties in elections and party reform. Prerequisite: PSCI 1201.

**PSCI 3235 Political Campaigns and Elections (3 units).** An examination of the principal features and consequences of American political campaigns; emphasis is placed on campaign strategies, the media; polling, contributions, and electoral outcomes. Prerequisite: PSCI 1201.

**PSCI 3250 Public Opinion and Voting Behavior (4 units).** American voting behavior, psychological dimensions of citizen decision making in a democracy, political attitudes and beliefs, and campaign tactics. Field work. Prerequisite: PSCI 1201.

**PSCI 3300 Introduction to Public Administration (3 units).** This course is an introduction to the study of principles and problems in administrative procedure in public organizations. Specific areas of examination include the relationship between bureaucratic and democratic theory, organization theory, personnel administration, fiscal and budgetary policy, and regulatory administration. Prerequisite: PSCI 1201.

**PSCI 3320 Executive Legislative Relations (3 units).** An examination of the organizational and policy dimensions of presidential- and bureaucratic-congressional relations. Topics covered include executive privilege, congressional investigations, impoundment, impeachment, and the legislative veto. Prerequisite: PSCI 1201.

**PSCI 3330 California Politics (3 units).** A study of politics and decision-making in California. Emphasis is placed on the ways public officials and private groups interact in the political arena. Prerequisite: PSCI 1201.



**PSCI 3410 Comparative Politics: Latin America (4 units).** A general survey of the politics of Latin America. Course includes historical factors affecting the nature of contemporary politics; the nature of contemporary political developments; the rôle of such forces as military, the church, and the United States; and the nature of revolution in Latin America. Prerequisite: PSCI 1201. (Spring)

**PSCI 3430 Middle East Politics (3 units).** A broad survey of Middle East politics since World War II. Emphasis will be given to the major issues facing the region, and economic links between the Middle East and the developed world.

**PSCI 3450 Comparative Politics: Eastern Europe (3 units).** An analysis of government, politics, and political development in Eastern European political systems. Prerequisite: PSCI 1201. (Fall)

**PSCI 3470 Comparative Politics: Asia (3 units).** A survey of the political systems of China, Japan, and India, and of selected other Asian nations. Description and analysis of government, political institutions, political culture, and historical background of the major Asian powers and of states where significant instability exists. Prerequisite: PSCI 1201.

**PSCI 3600 International Relations (4 units).** Introduction to the elements of international relations. Work in lab simulation will be an integral part of the course. Prerequisite: PSCI 1201. (Fall)

**PSCI 3700 Ethnic and Gender Politics (4 units).** This course will focus on the politics of ethnicity and gender. It will begin with a consideration of the Europatriarchal ideology underlying social relations in capitalist societies, investigate the impact of these relations on peoples experiencing colonization (Native Americans, African-Americans, Mexican-Americans, Asian-Americans, other "third world" peoples and women everywhere) and discrimination because of sexual preferences, and conclude with critical perspectives arising out of contemporary liberation movements. Satisfies upper division writing proficiency requirement. (Same as WMST 3700)

**PSCI 4210 The Judicial Process (3 units).** A study of judicial decision-making and of the organization of the American court systems. Emphasis is placed on both the federal and state courts. The course includes analysis of controversies surrounding the courts, e.g., "assembly-line justice" in the trial courts. Prerequisite: PSCI 1201. PSCI 3220 is strongly recommended.

**PSCI 4220 Simulation—Supreme Court Decision Making (3 units).** A study of decision-making in the United States Supreme Court through the use of discussions and simulations of the decision process. Prerequisite: PSCI 1201. (Spring)

**PSCI 4230 The Chief Executive (3 units).** A study of the chief executive in American national government. The roles, responsibilities, powers and limits of the President and other decision makers in the Executive Branch are analyzed; and the centrality of the executive in the American political system is emphasized. Prerequisite: PSCI 1201.

**PSCI 4300 Organization Theory (4 units).** The course concentrates on structural and behavioral approaches which have contributed to the understanding of organizations. The literature on organizations is reviewed. The meaning of organizations in contemporary society is emphasized. Prerequisite: PSCI 1201. PSCI 3300 recommended. (Spring)

**PSCI 4305 *Changing Sex Roles in Organizations (3 units)***. This course deals with changes in the work environment resulting from the influx and upward mobility of women into professional positions. It will address the dynamics of the change for both men and women. Specific topics include changing demographics, cultural taboos, problems and the legal climate. (Same as WMST 4305) (Summer)

**PSCI 4311 *Women in American Law (3 units)***. This course is designed to examine American law, focusing upon significant, recent, and current cases and opinion which act to discriminate between the rights, duties, and obligations of men and women on the basis of gender.

**PSCI 4315 *Public Policy Making (3 units)***. This course will address two areas of the policy making process: a) the role of social/political institutions with particular attention to administrative agencies, interest groups, and the judiciary in addition to the presidency and Congress; b) principal models of policy formation including elitism, systems theory, and incrementalism. Policy making in a number of specific domestic problem areas will be studied. Prerequisite: PSCI 1201. PSCI 3300 recommended. (Spring)

**PSCI 4325 *Land Use Planning (3 units)***. An examination of city and county land use policy making and issues in California. Course focuses on the nature and design of general plans and zoning ordinances; the roles played by planners, planning commissions, city councils; Boards of Supervisors, and the courts; and the impact of land use decisions on agriculture and urban development in the Central Valley. Prerequisite: PSCI 1201.

**PSCI 4330 *Urban Politics (4 units)***. Study of politics, organization, and problems at the urban level with emphasis on the responses of state and federal governments to the needs and demands of cities. Prerequisite: PSCI 1201.

**PSCI 4340 *Political Demography (3 units)***. Examination of the political and policy implications of population movements and trends. Prerequisite: PSCI 1201.

**PSCI 4350 *Government, Business, and the Economy (3 units)***. An examination of government regulation of the business community, the administration of national economic policy, and the impact of public policy and political events on private sector behavior. Prerequisite: PSCI 1201.

**PSCI 4500 *The Politics of World Hunger (4 units)***. A study of the nature and causes of world hunger. Includes an examination of such questions as: How extensive is world hunger? Who are the hungry? Is the situation getting worse or better? What can be done?

**PSCI 4600 *Statistical Analysis for Politics (4 units)***. This course will address applications of statistical analysis for political and social research, involving the use of computerized statistical programs for social science data analysis. (Formerly PSCI 4110)

**PSCI 4630 *International Politics of Industrial Societies (3 units)***. A detailed study, focusing on contemporary political and economic institutions linking Japan, the United States, and Europe. Special attention will be given to European/United States relations, the development of the Common Market, the role of foreign trade, and security interests. Prerequisite: PSCI 1201.

**PSCI 4640 *Foreign Policy Issues (3 units)***. Seminar will deal with contemporary issues in international relations. This course may be repeated for credit once.

**PSCI 4680 U.S.–Latin American Relations (4 units).** U.S. policy towards Latin America: who makes it, how it is made, what is it. Latin American reactions to U.S. policy. Latin American policy initiatives. U.S. intervention in Latin America. Prerequisite: PSCI 1201.

**PSCI 4700 The Political Novel (4 units).** An examination of the ways in which political activity and belief give shape to certain novels, particularly in America.

**PSCI 4800 American Political Realities (3 units).** An upper-level course designed for advanced students of American political life. The course will incorporate: 1) writing in political science; 2) understanding the major elements in the development of public policy in American society; 3) examining contemporary American policy issues. Open to incoming MPA students, senior political science students, and those seeking single subject waiver in government. Prerequisite: PSCI 1201 or consent of instructor.

**PSCI 4910 Cooperative Education (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisites: Sophomore standing and consent of departmental coordinator.

**PSCI 4940 Public Administration Internship (3 units).** Study of the scholarly and field dimensions of employment in public sector. This course is designed for students who are serving as interns in public agencies. Prerequisites: PSCI 1201, 3300.

**PSCI 4950 Selected Topics in Politics and Public Administration (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of political science. Topics will vary each term. Different topics may be taken for credit.

**PSCI 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

### **Postbaccalaureate**

**PSCI 5000 International Relations Seminar (4 units).** Research on an international relations topic, using political science and history methodology. (Topics to be specified in the Class Schedule.) To be taken concurrently with HIST 5000, International Relations Seminar. This course is primarily for the International Relations/History M.A. concentration, but is open to all qualified students.

**PSCI 5980 Individual Study (1–4 units).** For postbaccalaureate students who seek advanced and specialized study. Prerequisites: Consent of instructor and approval of graduate adviser.

**PSCI 5990 Thesis (1–6 units).** Thesis research. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of graduate adviser.

## **Graduate Studies in Public Administration**

### **Master of Public Administration (MPA) Program**

**Director:** April A. Hejka-Ekins

Graduate Studies in Public Administration is a comprehensive program of professional graduate-level study which leads to the Master of Public Administration degree. The program is offered by the Department of Politics and Public Administration. Its purpose is to educate and train administrators and policy analysts to pursue leadership and management careers at local, state, and national levels.

The objectives of the MPA program are:

- To provide education and skill acquisition for public service professionals with particular emphasis on the needs of government and non-profit organizations in Northern and Central California.
- To maintain and improve the capacity of local and regional governments to provide excellence in public service.
- To conduct research that will broaden the base of knowledge and skills in the field of public administration.
- To serve the regional community through faculty and student involvement in public affairs.

The program serves public service professionals seeking advanced education and training as part-time students and also serves full-time students preparing for careers in public service. Program courses are offered at two instructional centers—on-campus in Turlock and in Stockton.

The MPA Program is accredited by the National Association of Schools of Public Affairs and Administration (NASPAA) and has been placed on the national roster of programs conforming with NASPAA standards for professional graduate degrees in public administration.

### **Prerequisites for Admission**

1. A baccalaureate degree from an accredited college or university.
2. A GPA of 2.5 in the last 60 semester units attempted.
3. Three letters of recommendation.
4. Evaluation and approval of application by the Graduate Studies Committee in Public Administration.
5. Applicants whose native language is not English will be required to demonstrate proficiency in English by completing the Test of English as a Foreign Language (TOEFL) with a score of 550 or above (with part-scores of at least 54) prior to being admitted to the program.

### **Requirements for the Degree (42 units)**

1. All students are required to complete a minimum of 42 semester units of upper-division and graduate courses and seminars. A minimum of 30 of these units must be in graduate courses and seminars.
2. Students who have not had formal study in politics, economics, statistics, and introductory computer applications are advised to complete undergraduate courses before enrolling in graduate-level courses in these subjects.
3. In addition to the above required courses, all students will complete a minimum of 21 elective units chosen in consultation with the adviser. Up to 12 units may be 4000-series courses. These electives permit some specialization and may be selected to meet each student's career needs.

4. All students are required to complete successfully one of the following options in partial fulfillment of the upper-division degree requirements:

a. *Thesis*

- Required and approved elective courses, 36 units
- Approved research methods courses, 3 units
- Thesis Research, 3 units minimum
- Submission of written thesis
- Passing an oral thesis defense

b. *Comprehensive Examination*

- Required and approved elective courses, 42 units
- Passing a written comprehensive examination

*Note: The option is to be selected by the student in consultation with his/her adviser.*

5. Students must complete the MPA program with a minimum grade-point average of 3.0 on all upper-division and graduate course work credited toward the MPA degree. No grade less than a "B" is acceptable for the completion of a required course. A student who receives less than a "B" in a required course must take the course again. Any student who takes the same required course twice and does not receive a "B" or better will be dropped from the program. No course with a grade below "C" may count toward completion of the required units for the MPA degree. Any student who receives a grade lower than "C" will have this performance reviewed by the Graduate Studies Committee and may be dropped from the program. Any student who completes more than two courses with a grade "C" or below will be dropped from the program. No course which is to be counted toward the degree may be graded credit/no credit, with the one exception of PADM 5940, Public Administration Internship.

6. A public service internship program is a strongly recommended part of the MPA program, especially for the "pre-service" student. Internship positions and standards of experiential internship education are coordinated with local, county, regional, state, and federal administrative agencies, non-profit organizations, or the offices of elected officials. An internship generally involves part-time work for at least six months with a public sector organization. The intern works on agency assignments under the supervision of agency personnel while maintaining close liaison with the faculty internship program coordinator. As a general rule, interns are paid by the sponsoring agency. Interns are required to take PADM 5000, Administration in Public Affairs and PADM 5940, Public Administration Internship. Internship experience can be a valuable start to a professional career for the pre-service public administration student. Your academic adviser or the faculty internship program coordinator will be able to provide further specific information and guidance.

7. The degree of Master of Public Administration will be awarded upon certification of successful completion of degree requirements by the MPA Graduate Studies Committee.

8. All students are required to complete the following seven courses (21 units):

- |           |   |
|-----------|---|
| PADM 5000 | Administration in Public Affairs, 3 units         |
| PADM 5005 | Public Finance/Fiscal Policy, 3 units             |
| PADM 5010 | Quantitative Analysis, 3 units                    |
| PADM 5015 | Public Policy Analysis, 3 units                   |
| PADM 5100 | Organizational and Administrative Theory, 3 units |
| PADM 5110 | Public Personnel Administration, 3 units          |
| PADM 5200 | Public Agency Budgeting, 3 units                  |

9. All students are required to complete 21 units chosen from the following electives:

PADM 5106	Organizational Development/Group Dynamics, 3 units
PADM 5120	Collective Bargaining in the Public Sector, 3 units
PADM 5130	Organizations, Individuals, and Ethics, 3 units
PADM 5140	Combating Political Corruption, 3 units
PADM 5300	Urban/Regional Planning, 3 units
PADM 5400	Computer Applications in Public Administration, 3 units
PADM 5500	Administrative Law & Public Policy, 3 units
PADM 5505	Intergovernmental Relations, 3 units
PADM 5600	Political Theory in Public Management, 3 units
PADM 5700	County Government Administration, 3 units
PADM 5710	Research Design in Public Administration, 3 units
PADM 5715	Health Services Administration, 3 units
PADM 5800	Seminar in Special Topics in Public Administration, 1-5 units
PADM 5940	Public Administration Internship, 3 units
PADM 5980	Individual Study, 1-4 units
PADM 5990	Thesis, 1-3 units
PSCI 4315	Public Policy Making, 3 units
PSCI 4330	Urban Politics, 4 units
PSCI 4350	Government, Business and the Economy, 3 units
PSCI 4600	Statistical Analysis for Politics, 4 units
ECON 4100	Labor Economics, 3 units
ECON 4300	Mathematical Economics, 3 units
ECON 4415	International Economics, 3 units
ECON 4600	Urban Economics, 3 units
GEOG 4350	Urban Geography, 4 units
MATH 4461	Introduction to Operations Research, 4 units
PHIL 4401	Professional Ethics, 3 units

*Note: Other 4000 or 5000 level courses, besides those listed here, may also be taken as electives toward the MPA degree if deemed relevant and approved in writing by your graduate adviser.*

## Course Descriptions

**PADM 5000 Administration in Public Affairs (3 units).** A graduate introduction to the problems, principles, and theory encountered in the profession of public administration. Specific areas covered include the relationship between bureaucratic and democratic theory, organizational structure, policymaking, personnel administration, fiscal and budgetary processes, and administrative regulation. Prerequisite: PSCI 1201 or equivalent. (Fall, Spring)

**PADM 5005 Public Finance/Fiscal Policy (3 units).** An analysis of budgetary process, expenditure policy, debt policy, intergovernmental fiscal relations, and taxation on the federal, state, local, and county levels of government. Prerequisite: ECON 2500 or equivalent and classified standing in the MPA program. (Fall, Spring)

**PADM 5010 Quantitative Analysis (3 units).** A study of the basis of empirical research, and the collection and analysis of quantitative data for the purpose of decision making. Prerequisites: CS 1000, an introductory course in social science methodology or statistics (e.g., MATH 1600), or consent of instructor and classified standing in the MPA program. (Fall)

***PADM 5015 Public Policy Analysis (3 units).*** A study of processes by which public policy is formulated, implemented, and evaluated. Emphasis will be placed on increasing understanding and developing skills of critical assessment and inquiry about policies with respect to (a) the development of courses of action for problem resolutions, (b) the environmental context of policy actions, (c) the application/administration of public policy, (d) methods for the assessment of resultant impacts and consequences of policy actions. Prerequisites: PADM 5000 and 5010. (Spring)

***PADM 5100 Organizational and Administrative Theory (3 units).*** Examination of the development and current emphases in organization theory from scientific management to existentialism. Focus is on the use of theory in public management. Prerequisite: Classified standing in the MPA program. (Fall)

***PADM 5106 Organizational Development/Group Dynamics (3 units).*** This course uses an experiential skill-building approach towards improved interpersonal and group relations in a public sector environment. Students learn how to diagnose and influence the decision making behavior of small groups. Prerequisite: Classified standing in the MPA program or consent of instructor. (Spring)

***PADM 5110 Public Personnel Administration (3 units).*** An intensive overview of the personnel functions of public management. Topics include staffing, training and development, merit systems, labor relations, equal employment opportunity and affirmative action, and job evaluation. Prerequisite: Classified standing in the MPA program. (Fall)

***PADM 5120 Collective Bargaining in the Public Sector (3 units).*** General survey of employer-employee relations in the public sector. Particular attention paid to developments in public employee collective bargaining legislation and present state of the art of negotiations for conflict resolution in the public sector. Prerequisite: Classified standing in the MPA program or consent of instructor. (Fall)

***PADM 5130 Organizations, Individuals and Ethics (3 units).*** This course addresses ethical dilemmas inherent in the tension between organizations and individuals. Concepts include: Administrative discretion, organizational roles and role conflicts, organizational norms, procedures and structures, and responsible behavior. Skill development in ethical decision-making is emphasized. Case studies from the public sector are used. Prerequisite: Classified standing in the MPA program. (Fall, Winter)

***PADM 5140 Combating Political Corruption (3 units).*** This course explores the nature and dynamics of political corruption in terms of waste, fraud, and abuse especially as it relates to the public sector. Particular emphasis on systemic corruption and the role of the whistleblower is examined. Prerequisite: PADM 5000 and classified standing in the MPA program.

***PADM 5200 Public Agency Budgeting (3 units).*** This course covers line-item, performance, and program budgets at various governmental levels. Capital budgets and fiscal techniques are explored. PADM 5005 recommended. Prerequisite: Classified standing in the MPA program. (Spring)

**PADM 5300 Urban/Regional Planning (3 units).** The structure and role of urban and regional planning; the planning process, policy tools; planning models, urban indicators, growth limits, and policy objectives. Prerequisite: Classified standing in the MPA program or consent of the instructor. (Fall, Spring)

**PADM 5400 Computer Applications in Public Administration (3 units).** This course develops the knowledge and skills in computing needed by public administrators, planners, and policy analysts. The focus is on the use of computer programs important to effective public management. Applications include data base management, spreadsheet analysis, statistical analysis, presentation graphics, communications, word processing, bibliographic retrieval, and project management. Examples are drawn from government and nonprofit organization settings. Prerequisite: CS 1000 or equivalent and classified standing in the MPA program. (Winter)

**PADM 5500 Administrative Law and Public Policy (3 units).** Examination of the basic principles of constitutional and administrative law; leading cases, judicial decisions affecting powers, procedures and processes of governmental agencies, e.g., decision making processes in execution of administrative legislation, adjudication and discretion duties, and the rights and liabilities of public officials. Prerequisite: Classified standing in the MPA program. (Spring)

**PADM 5505 Intergovernmental Relations (3 units).** An examination of the administrative, political, and fiscal dimensions of intergovernmental relations. Course focuses on the development of the federal system, the character of interlevel contacts, and the main features of intergovernmental transfers. Prerequisite: Classified standing in the MPA program. (Fall, Spring)

**PADM 5600 Political Theory in Public Management (3 units).** This course focuses on the evolution of Western political ideals and values. Students read and discuss works by such philosophers as Plato, Aristotle, Machiavelli, Locke, Marx, and Rawls. Political values and concepts discussed are related to contemporary problems of public management. Prerequisite: Classified standing in the MPA program. (Fall)

**PADM 5700 County Government Administration (3 units).** A seminar designed to orient students with the politics, structure, and functions of county government in the United States. Particular attention is paid to functional areas of county responsibility (e.g., budgeting, planning, personnel) and the range of current problems faced by counties. Prerequisite: Classified standing in the MPA program. (Fall)

**PADM 5710 Research Design in Public Administration (3 units).** A research practicum which focuses on the design and conduct of field research on local governmental issues and processes. Required of MPA students conducting thesis research. Open to other graduate students with consent of instructor. Prerequisite: Classified standing in the MPA program or consent of instructor. (Spring)

**PADM 5715 Health Services Administration (3 units).** This course addresses management processes and policy issues unique to health care delivery. Topics will include advanced study of finance, program evaluation, planning, regulation, and the political and social environment of health services. Prerequisite: PADM 5000 or consent of instructor. (Spring)



***PADM 5800 Seminar in Special Topics in Public Administration (1–5 units).*** Analysis of selected topics in public administration. Topics may vary each semester. Such topics may include professionalism, public policy, and politics; urban area administration and policy; social science implications in public policy. Prerequisite: Classified standing in the MPA program. (Fall, Winter, Spring, Summer)

***PADM 5940 Public Administration Internship (3 units).*** Study of the scholarly and field dimensions of employment in public sector. This course is designed for students who are serving as interns in public agencies. Prerequisite: Classified standing in the MPA program. (Spring)

***PADM 5980 Individual Study (1–4 units).*** For postbaccalaureate students in public administration who seek advanced and specialized study. Prerequisites: Consent of instructor and approval of graduate adviser.

***PADM 5990 Thesis (1–3 units).*** Thesis research. To be repeated for a minimum of 3 units. Prerequisites: Classified standing in MPA program, consent of instructor, and approval of graduate adviser.



## Psychology

**Office:** Classroom Building 231, (209) 667-3386

**Chair:** James A. Wakefield Jr.

**Faculty:** Rita-Ann Asher, Victoria Cortez, Thomas A. Gentry, W. Mack Goldsmith (Emeritus), Susan Goodwyn, Bruce E. Hesse, Lewis E. Holt, Jane S. Howard, Thomas M. Kimlicka, Jamie McCreary, Cynthia L. Morgan, Linda S. Myers, Gary D. Novak, Gina M. Pallotta, Stanley E. Sherman, James A. Wakefield, Jr.

The Department of Psychology offers the degrees Bachelor of Arts, Master of Arts, and Master of Science. Concentrations in Counseling Psychology and Behavior Analysis are available in the Master of Science program. Within the Bachelor of Arts program, optional concentrations in Developmental Psychology and Experimental Psychology are offered and a Counseling Psychology concentration is under development. The Department of Psychology also offers a minor in Psychology and a concentration within Liberal Studies.

The University offers a Bachelor of Arts, Social Sciences, with an interdepartmental major in psychology and any other two disciplines within the social sciences. (For further information, see the "Social Sciences" section of this catalog.)

### Bachelor of Arts, Psychology

The major program is designed for those who: (1) wish to extend their education in the liberal arts with an emphasis on psychology, (2) plan to enter a profession or occupation in which a strong background in psychology is necessary, or (3) wish to prepare for graduate work in psychology.

### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
  2. Complete the following prerequisites to the major (6 units):
    - a. PSYC 2010 Introduction to Psychology, 3 units, or equivalent
    - b. PSYC 2020 Introduction to Psychological Methods, 3 units, or equivalent
- Note: This course is a prerequisite to many regular upper-division psychology courses.*
3. Complete the following courses in supporting fields (7–8 units):
    - a. ANTH 2060 Introduction to Cultural Anthropology, 3 units, *or*  
 COGS 2100 Introduction to Cognitive Studies, 3 units, *or*  
 SOCL 1010 Introduction to Sociology, 3 units, *or*  
 SPCH 2011 Approaches to Human Communication, 4 units
    - b. BIOL 1010 Principles of Biology, 3 units, *and*  
 BIOL 1020–1029 Special Laboratory Studies, 1 unit, *or*  
 ZOOL 1050 Introduction to Zoology, 4 units
    - c. MATH 1600 Statistics, 4 units

4. Complete the major of 30 upper-division units, as approved by the major adviser; majors must take all courses counted toward the major for a letter grade if the letter grade option is available. In addition, no more than 6 units of CR-graded course work in courses graded exclusively CR/NC may apply toward the major (including Winter Term and field work).
5. A maximum of 3 units of combined field work, internships, and cooperative education can be applied toward the psychology major.
6. Students are permitted to take any approved WP course. However, it is strongly recommended that undergraduate students in Psychology take PHIL 3500, Philosophy of Mind, to meet Writing Proficiency requirements.

*Note: Completion of a minor is not required. Any student seeking an exemption from a Psychology Department requirement should consult with the major adviser and file a petition with the department chair.*

### The Major (30 units)

1. Complete the following required courses (7 units):
  - a. PSYC 3000 Experimental Methods and Design, 4 units, *and*
  - b. PSYC 4020 History of Psychology, 3 units, *or*  
PSYC 4900 Advanced General Psychology, 3 units
2. Complete a broad basic program with one course selected from each group below (12 units):
  - a. **Fundamentals of Psychology**
    - PSYC 3400 Introduction to Perception, 3 units
    - PSYC 3700 Introduction to Learning and Motivation, 3 units
    - PSYC 4400 Cognitive Processes, 3 units
  - b. **Biological Bases of Psychology**
    - PSYC 3090 Comparative Animal Behavior, 3 units
    - PSYC 3100 Introduction to Physiological Psychology, 4 units
    - PSYC 4110 Behavior Genetics, 3 units
    - PSYC 4720 Experimental Analysis of Behavior, 3 units
  - c. **Principles of Human Behavior**
    - PSYC 3140 Human Development I: Childhood, 3 units
    - PSYC 3240 Human Development II: Adolescence, 3 units
    - PSYC 3310 Introduction to Social Psychology, 3 units
    - PSYC 3320 Introduction to Personality, 3 units
    - PSYC 3340 Human Development III: Adulthood and Aging, 3 units
  - d. **Foundations of Applied Psychology**
    - PSYC 3160 Introduction to Psychological Testing, 3 units
    - PSYC 3350 Introduction to Study of Abnormal Behavior, 3 units
    - PSYC 3790 Introduction to Counseling Theory, 3 units
3. Complete at least two laboratory courses in connection with the courses listed in Section 2. They may be selected from the courses listed below (2 units):
  - PSYC 3080 Comparative Animal Behavior Laboratory, 1 unit
  - PSYC 3102 Introduction to Physiological Psychology Lab, 1 unit
  - PSYC 3120 Human Development Research Laboratory, 1 unit
  - PSYC 3302 Social Psychology Laboratory, 1 unit
  - PSYC 3410 Perception Laboratory, 1 unit
  - PSYC 3710 Learning and Motivation Laboratory, 1 unit
  - PSYC 4722 Experimental Analysis of Behavior Laboratory, 1 unit
4. Select upper-division electives with the assistance of the major adviser (9 units).

## Concentration in Developmental Psychology

The concentration in Developmental psychology provides the opportunity to study human developmental processes from a psychological perspective. The concentration prepares students considering careers in child development centers, child welfare clinics, and related agencies. Moreover, it provides the academic background for those planning graduate work in Developmental Psychology and related fields. In addition to a firm grounding in basic psychology, the concentration extends psychological principles to various aspects of human development.

### Requirements (39 units)

1. Complete the prerequisites to the major (6 units).
2. Complete the requirements for a degree major in psychology with the following restrictions (30 units):
  - a. Human Development I must be taken in Section 2c.
  - b. Human Development Research Laboratory must be taken in Section 3.
  - c. Upper-division electives in Section 4 should be selected from the courses listed below:
    - PSYC 3160 Introduction to Psychological Testing, 3 units
    - PSYC 3170 Early Cognitive Development, 3 units
    - PSYC 3180 Early Social and Emotional Development, 3 units
    - PSYC 3240 Human Development II: Adolescence, 3 units
    - PSYC 3340 Human Development III: Adulthood and Aging, 3 units
    - PSYC 4110 Behavior Genetics, 3 units
    - PSYC 4130 Psychological Disorders of Children, 3 units
    - PSYC 4150 Learning Disabilities, 3 units
3. Complete three additional elective courses beyond those required for the major (9 units).

## Concentration in Experimental Psychology

This concentration is for the undergraduate psychology major who intends to pursue graduate training in the area of experimental or clinical psychology. It provides a strong background in the areas of statistics and experimental methodology, which are two areas required for admission by psychology graduate schools. In addition to methodology, the student is exposed to a greater breadth of content areas in the field of experimental psychology than is required by the major. Finally, the student is provided with technical skills which greatly enhance the ability to conduct independent research, a requirement of all graduate programs.

### Requirements (39 units minimum)

1. Complete the prerequisites to the major (6 units).
2. Complete the requirements for the degree major in psychology with the following restrictions (30 units):
  - a. History of Psychology must be taken in Section 1.
  - b. Upper-division electives in Section 4 should be selected from the courses listed below:
    - PSYC 3090 Comparative Animal Behavior, 3 units
    - PSYC 3100 Introduction to Physiological Psychology, 4 units
    - PSYC 3140 Human Development I: Childhood, 3 units

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PSYC 3310 Introduction to Social Psychology, 3 units

PSYC 3400 Introduction to Perception, 3 units

PSYC 3700 Introduction to Learning and Motivation, 3 units

PSYC 4110 Behavior Genetics, 3 units

PSYC 4400 Cognitive Processes, 3 units

PSYC 4720 Experimental Analysis of Behavior, 3 units

3. Take one additional course in Section 2a and one additional course in Section 2b (6 units).
4. Complete Senior Thesis (PSYC 4990, 3 units), *or* take two additional laboratory courses (2–3 units).

## Degree Minor

### Requirements (18 units)

1. Complete the following lower-division courses (6 units):
  - PSYC 2010 Introduction to Psychology, 3 units
  - PSYC 2020 Introduction to Psychological Methods, 3 units
2. Complete a minimum of 12 units of upper-division psychology courses with one course selected from each of the following four groups within the psychology major. Of these, no more than 3 units of CR-graded course work (including Winter Term and field work) may be applied to the minor.
  - a. Fundamentals of Psychology
  - b. Biological Bases of Psychology
  - c. Principles of Human Behavior
  - d. Foundations of Applied Psychology.

## Liberal Studies Concentration

### Requirements (18 units)

1. Complete PSYC 2020, Introduction to Psychological Methods, 3 units.
2. Complete a minimum of 15 units of upper-division psychology courses with at least one course selected from each of the following four groups within the psychology major:
  - a. *Fundamentals of Psychology*
  - b. *Biological Bases of Psychology*
  - c. *Principles of Human Behavior*
  - d. *Foundations of Applied Psychology*
3. No more than 3 units of CR-graded course work (including Winter Term and field work) may be applied to the concentration.

## Teaching Credentials

Psychology students interested in obtaining a single subject teaching credential are directed to the social sciences waiver in the “Social Sciences” section of this catalog. Please refer to the “School of Education, Teacher Education” section of this catalog for a description of other requirements to be completed in obtaining a single subject credential.

## Learning and Severely Handicapped: Special Education Credential

Students planning careers in the field of teaching exceptional children should consult with the credential adviser in the School of Education regarding program requirements.

## Master of Arts in Psychology

The Master of Arts program in psychology is designed (1) to prepare students for advanced graduate work, or (2) for those students who desire a research oriented program. Admission to the program is competitive.

### Minimum Prerequisites for Admission

1. A Bachelor of Arts degree with a minimum of 16 approved semester units in psychology, including a background in experimental and research skills. These courses must be acceptable to the Psychology Graduate Committee in terms of course content and student performance.
2. A minimum 3.0 GPA in the undergraduate major.
3. Satisfactory performance on the Graduate Record Exam General Test (GRE). Applicants are also required to show satisfactory performance on the Graduate Record Exam Subject Test in Psychology, but may delay this test. Contact the Graduate Coordinator for further information.
4. Choose an area of interest and a faculty member with whom you would like to work. After consultation with the faculty member, submit:
  - a. a brief description of a sample problem you might choose as a thesis,
  - b. a letter of support from the faculty member stating that he or she agrees to serve as chair of your Master's committee and will direct the research for your chosen project,
  - c. a list of all course work needed for completion of your degree.
5. Three letters of recommendation.
6. Approval by the Psychology Department.

### Minimum Prerequisites for Continuation

1. Maintenance of a 3.0 GPA in all courses attempted.
2. Satisfactory progress on the thesis research.
3. Other requirements may be stated in University and departmental guidelines for academic probation and termination. The student is responsible for obtaining current copies of these regulations and complying with the criteria listed.

### Requirements (30 units)

1. Complete the Master of Arts program, as outlined below (30 units):
  - a. Complete the following courses (12 units):
    - PSYC 5000 Advanced Quantitative Methods, 3 units
    - PSYC 5940 Field Work, 6 units
    - PSYC 5990 Master's Thesis, 1-3 units
  - b. Select the remaining 18 semester hours from the available 4000- and 5000-level catalog courses. These courses are to be selected with prior approval of the student's thesis committee (PSYC 5780, 5790, 5910, and 5930 are not open to Master of Arts students.)

- c. At least 50% of all M.A. course work must be at the 5000-level. There are also restrictions as to the amount of course work that can be graded "Credit/No-Credit."
  2. Complete Master of Arts research including a public defense of the thesis.
- Note: No more than 9 units of graduate credit can be transferred from work taken while in unclassified status. The 9-unit limit also applies to any graduate work transferred from other institutions.*

## Master of Science in Psychology

The primary purpose of the Master of Science Program in Psychology is to develop mastery of a substantial body of knowledge and skills for students planning careers in counseling or clinical psychology (with a Behavior Analysis emphasis). The Behavior Analysis Program emphasizes applied behavior analysis and trains students for positions in a wide range of clinical settings. Students completing the Counseling Program or the Applied Behavior Analysis Program fulfill the academic requirements to sit for the Marriage, Family, and Child Counseling License examination. Admission to the program is competitive. See the Psychology Department's "Graduate Student Handbook" for additional information.

### Minimum Prerequisites for Admission

1. A Bachelor of Arts or Bachelor of Science degree with 16 approved units in Psychology including Introduction to Psychology and a grade of B or better in an upper division experimental and research skills course. These courses must be acceptable to the Psychology Graduate Committee in terms of course content and student performance. Additional specific prerequisite courses for each concentration are outlined in the Psychology Department's "Graduate Student Handbook."
2. A minimum 3.0 GPA in the undergraduate major.
3. Satisfactory performance on Graduate Record Examination (general and psychology portions).
4. Completion of a set of examinations which may be administered by the Psychology Department to determine those areas in which further preparation is required.
5. Approval by the Psychology Department.
6. Related work or volunteer experience strongly recommended.
7. Individuals who need to complete the minimal prerequisites may apply for postbaccalaureate status. Please refer to the catalog section "Graduate and Postbaccalaureate Application Procedures."

### Minimum Prerequisites for Continuation

1. Maintenance of a 3.0 GPA in all courses attempted.
2. Satisfactory progress toward the degree.
3. A classified graduate student in psychology will be dropped from classified standing upon receiving more than three units of graduate study graded less than "B." However, any graduate student may retake a course graded less than "B" for a higher grade, and a classified student must remove such grade deficits (in excess of three units) in the next semester or petition the Graduate Committee for a time extension if it is impossible to make up the deficit. In no case will more than three units graduate study graded less than "B" be counted towards a Master's Degree.
4. Satisfactory completion of the Psychology Department's writing requirement.
5. Other requirements may be stated in University and Department Guidelines for Academic Probation and Termination. The student is responsible for obtaining current copies of these regulations and complying with the criteria listed.

## Requirements (50 units minimum)

1. Complete the appropriate 50 or more units or their equivalent.
2. Complete the 29 core units listed in the Basic Requirements Section as well as the requirements listed for the concentration to which they have been admitted.

**Note:** *Course requirements may be satisfied by demonstrating proficiency in the subject matter included in a required course. This will normally be done through challenge procedure or acceptable transfer credit.*

**Note:** *Field work is strongly encouraged. Contact a faculty adviser to discuss appropriate placements.*

## Basic Requirements

- PSYC 4722 Experimental Analysis of Behavior Lab, 1 unit
- PSYC 4790 Behavioral Engineering, 3 units
- PSYC 5000 Advanced Quantitative Methods, 3 units
- PSYC 5080 Legal and Ethical Issues, 3 units
- PSYC 5130 Advanced Human Development, 3 units
- PSYC 5650 Child Clinical Interventions, 3 units
- PSYC 5690 Counseling Sexual Problems, 4 units
- PSYC 5770 Substance Abuse/Chemical Dependency Counseling, 3 units
- PSYC 5810 Group Dynamics Seminar, 3 units
- PSYC 5990 Thesis, 3 units

**Note:** *Extra thesis units may be taken as appropriate. Students must register for thesis units during any semester, including summer, in which they are working under direct faculty supervision.*

## Concentrations

### Behavior Analysis

- PSYC 4550 Practicum in Direct Instruction, 3 units
- PSYC 4720 Experimental Analysis of Behavior, 3 units
- PSYC 4750 Applied Behavior Analysis for Severely and Learning Handicapped, 3 units
- PSYC 5070 Practicum in Child Diagnostics and Intervention, 3 units, *or*
- PSYC 5090 Behavioral Assessment, 3 units
- PSYC 5640 Advanced Seminar in Behavior Change, 3 units
- PSYC 5910 Practicum in Counseling and Diagnostics, 3 units, *or*
- PSYC 5930 Practicum in Behavior Modification, 3 units
- PSYC 5960 Seminar in Applied Psychology, 3 units

### Counseling Concentration

- PSYC 4360 Seminar in Clinical and Abnormal Psychology, 3 units
- PSYC 5030 Psychodiagnostics I, 3 units
- PSYC 5042 Psychodiagnostics I Laboratory, 1 unit
- PSYC 5780 Advanced Counseling, 3 units
- PSYC 5790 Family Counseling Theory and Practice, 3 units
- PSYC 5800 Marriage and Family Life, 2 units
- PSYC 5910 Practicum in Counseling and Diagnostics, 3 units  
Must be repeated for a total of 6 units.



## Course Descriptions

### *Lower Division*

**PSYC 1000 Sexual Behavior (3 units).** The biological, psychological, and cultural origins of sexuality are reviewed within the context of human evolution and development. (Winter, odd years)

**PSYC 2000 Honors Introduction to Psychology (4 units).** This course offers a more in-depth introduction to the study of human behavior than that offered by basic introductory courses. Fulfills all prerequisites met by PSYC 2010. Laboratory activities and demonstrations accompany each unit of material. Prerequisites: Consent of instructor; advisement by Honors Program. (Fall)

**PSYC 2010 Introduction to Psychology (3 units).** Scientific study of human behavior. This course or its equivalent is a prerequisite to all upper-division courses in psychology. (CAN PSY 2) (Fall, Spring)

**PSYC 2020 Introduction to Psychological Methods (3 units).** Basic techniques and procedures for making systematic observations in a wide variety of psychological situations, both laboratory and field. Psychological methods demonstrated through topics of current research and application, and through demonstration-lab projects. Prerequisite: PSYC 2010 or equivalent. (Fall, Spring)

**PSYC 2030 Psychology of Adjustment (2 units).** Primarily for non-psychology majors. A review of issues in personal and social adjustment to prepare students for a lifelong understanding of themselves as integrated persons. Topics include human sexuality, family process, effective integration of work and leisure, health and stress management, death and dying, and other aspects of human development through the life cycle. (Fall, Winter, Spring)

**PSYC 2950 Selected Topics in Psychology (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of psychology. Topics may vary each term. Different topics may be taken for credit. Prerequisites: Consent of instructor and PSYC 2010 or equivalent.

### *Upper Division*

**PSYC 3000 Experimental Methods and Design (4 units).** Provides a working knowledge of fundamental scientific methods in psychology, stressing the integration of laboratory methods, measurement theory, and inferential statistical techniques, including introduction to analysis of variance. This course is a prerequisite to the laboratory courses required of psychology majors. Prerequisites: PSYC 2020 and MATH 1600 or consent of instructor. (Fall, Spring)

**PSYC 3010 Child Abuse and Neglect (1 unit).** Child maltreatment will be examined from a variety of perspectives, including those of victims, perpetrators, mental health professionals, child care workers and teachers, the legal system and public policy makers. Issues addressed will include definitions, causes, consequences, assessment, reporting, treatment and prevention of child abuse and neglect. Course content will cover all areas required by the State of California under AB 141.

**PSYC 3020 Child Guidance and Management (3 units).** Students will study theoretical models of guidance and management with implications for academic, home, and clinical settings. Direct application with a laboratory setting. Prerequisites: PSYC 2010, 3010, and 3140.

**PSYC 3080 Comparative Animal Behavior Laboratory (1 unit).** Laboratory experiments and field observation will focus upon the ways in which different species deal with the basic biological problem of foraging and feeding, defense, and reproduction. Prerequisite: Prior or concurrent enrollment in PSYC 3090 (Spring, even years);

**PSYC 3090 Comparative Animal Behavior (3 units).** A comparative study of behavior systems in animals and humans. Stress is upon the social and developmental aspects of behavior. Prerequisite: BIOL 1010 or ZOO 1050. Concurrent enrollment in PSYC 3080 not required. (Spring)

**PSYC 3100 Introduction to Physiological Psychology (4 units).** Relationship between behavior and physiological processes, particularly neurophysiological processes. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: BIOL 1010 or ZOO 1050 (Fall);

**PSYC 3120 Human Development Research Laboratory (1 unit).** Laboratory experience in the systematic observation of developmental phenomena in human behavior. Prerequisites: PSYC 2020 and concurrent or prior enrollment in PSYC 3140, 3240, or 3340 or consent of instructor. (Fall, Spring)

**PSYC 3140 Human Development I: Childhood (3 units).** Basic principles of human development as they apply to infancy and childhood. Discussion of current developmental research and applications. Prerequisite: PSYC 2010 or consent of instructor. (Fall, Spring)

**PSYC 3160 Introduction to Psychological Testing (3 units).** Basic, widely applicable principles of psychological testing presented in a nontechnical way, plus descriptions of representative types of psychological tests in common use. Prerequisite: PSYC 2020 or consent of instructor. (Fall, Spring)

**PSYC 3170 Early Cognitive Development (3 units).** Theoretical, empirical, and applied issues in intellectual development, including development of perception, concepts reasoning, communication, and memory. Various theorists such as Piaget, Montessori, and T.G.R. Bower will be discussed in different semesters. Prerequisite: PSYC 3140 or consent of instructor. (Fall, Spring)

**PSYC 3180 Early Social and Emotional Development (3 units).** Examination of the child's interpersonal, emotional, and personality development, emphasizing theoretical issues and research. Specific topics addressed will include attachment, aggression and prosocial behavior, parent-child relationships, and gender differences. Prerequisite: PSYC 3140. (Fall, Spring)

**PSYC 3181 Early Childhood Development (3 units).** (Replaces PSYC 3190) Laboratory analysis of children's social, cognitive, physical and emotional development and individual differences. Participation in the Child Development Center's programs; implications for developmentally-appropriate programs and techniques. Prerequisites: PSYC 3010, 3140 and concurrent or previous enrollment in PSYC 3170 and 3180.

**PSYC 3200 Psychology of Religion (3 units).** The course will focus on subjective and behavioral responses to a variety of religions and other belief systems. Topics will include the origins of religious belief, conversion, mystical states, and the relation of religious commitment to personality development, other social attitudes (e.g., prejudice), morals, and mental health. (Fall, odd years)

**PSYC 3240 Human Development II: Adolescence (3 units).** Examines basic developmental issues in adolescent development, including physical and psychological effects of puberty, cognitive, social and personality development, and psychosocial problems. Discussion of current developmental research and application. Prerequisites: PSYC 2010 or consent of instructor.

**PSYC 3302 Social Psychology Laboratory (1 unit).** Laboratory and field studies to demonstrate the variety of methods and content areas in social psychology. Prerequisites: PSYC 3000 and concurrent or prior enrollment in PSYC 3310 required. (Winter, odd years)

**PSYC 3310 Introduction to Social Psychology (3 units).** Survey of interpersonal relations and behavior from a psychological perspective. An emphasis will be placed on the role of social cognition and attitudes. Topics to be covered include images of self and others; social motives such as affiliation, altruism and aggression; and dyadic and group relationships. Prerequisites: PSYC 2010 and 2020 or consent of instructor. (Fall, Spring)

**PSYC 3320 Introduction to Personality (3 units).** Survey of the most influential approaches to the study and understanding of personality with emphasis on comparison of critical, theoretical issues. Prerequisite: PSYC 2010 or consent of instructor. (Fall, Spring)

**PSYC 3340 Human Development III: Adulthood and Aging (3 units).** Basic principles of adult development and aging from maturity to death are examined. Biological, psychological, and sociological aspects of development and aging are considered through discussion of relevant theory, research, and application. Prerequisites: PSYCH 2010 or consent of instructor.

**PSYC 3350 Introduction to the Study of Abnormal Behavior (3 units).** Abnormal behavior in humans, stressing symptoms and dynamics of neuroses and psychoses. Prerequisites: PSYC 2020 plus 2 additional courses in psychology. PSYC 3140 and 3320 are recommended. (Fall, Spring)

**PSYC 3400 Introduction to Perception (3 units).** Basic phenomena in the area of perception. Simple and complex responses to stimuli. Topics include form perception and organization, color, illusions, space perception, motion perception, perceptual development. Basic phenomena are demonstrated and interpretations considered. Prerequisite: PSYC 2020. Concurrent enrollment in PSYC 3410 not required. (Spring, odd years)

**PSYC 3410 Perception Laboratory (1 unit).** Laboratory experience in phenomena related to perception and cognition. Prerequisites: PSYC 3000 and concurrent or prior enrollment in PSYC 3400 required. (Spring, odd years)

**PSYC 3440 Developmental Assessment (3 units).** Introduction to basic issues and considerations in developmental assessment. Rationale for assessing perceptual-motor and cognitive abilities, emergent language abilities, and personal social maturity in children. Application of assessment procedures. Prerequisites: PSYC 2020, 3010, 3140, 3170 and 3180.

**PSYC 3660 *Psychology of Women (3 units)*.** This course provides a psychological examination of the nature and experiences of women in contemporary society. Topics to be discussed include women and power, the meaning of sexuality, stress and conflict surrounding women's roles, and male-female relationships. (Same as WMST-3660). (Fall, even years)

**PSYC 3700 *Introduction to Learning and Motivation (3 units)*.** Basic phenomena of learning and motivation are covered. Various theoretical viewpoints are covered, including cognitive, stimulus-response, and humanistic theories of learning and motivation. Basic phenomena covered include classical and operant conditioning, the roles of reward and punishment in learning, transfer of learning, and retention. Utilization of these concepts in classroom situations and society is demonstrated. Prerequisite: PSYC 2020 or concurrent enrollment. Concurrent enrollment in PSYC 3710 not required. (Fall, Spring)

**PSYC 3710 *Learning and Motivation Laboratory (1 unit)*.** Laboratory experiments within the framework of human (e.g., verbal) learning for the purpose of introducing and implementing predominant statistical techniques associated with this area (i.e., analysis of variance, factorial designs, planned comparisons). Prerequisites: PSYC 3000 and concurrent or prior enrollment in PSYC 3700, or consent of instructor. (Spring)

**PSYC 3790 *Introduction to Counseling Theory (3 units)*.** Introduction to major theories of counseling. Demonstrations and review of current literature. Prerequisite: PSYC 3320. (Fall, Spring)

**PSYC 4020 *History of Psychology (3 units)*.** Trends of thought, development of psychology as a discipline with leaders, schools, and issues. Prerequisites: PSYC 2020 and two upper-division courses in psychology, or consent of instructor. (Spring)

**PSYC 4110 *Behavior Genetics (3 units)*.** Evaluation of the genotypic contribution to human and animal behavior. Special emphasis on the interaction between genotype and environment during development. Prerequisite: BIOL 1010 or ZOOL 1050. (Spring)

**PSYC 4130 *Psychological Disorders of Children (3 units)*.** A review of theories and treatment techniques dealing with a broad range of childhood disorders, including autism, childhood schizophrenia, mental subnormality, and psychophysiological problems. A behavioral approach, based on empirical evidence, will be emphasized. Prerequisite: PSYC 3140. (Spring)

**PSYC 4140 *Child Abuse and Neglect (1 unit)*.** Child maltreatment will be examined from a variety of perspectives, including those of the victims, perpetrators, mental health professionals, child care workers and teachers, the legal system, and public policy makers. Issues addressed will include definitions, causes, consequences, assessment, reporting, treatment, and prevention of child abuse and neglect. Course content will cover all areas required by the State of California under AB 141. Prerequisites: PSYC 3140 or consent of instructor. (Winter)

**PSYC 4150 *Learning Disabilities (3 units)*.** Overview of the major categories of learning disabilities including educationally retarded and behavior disorders. Survey of instructional programs and review of supportive data for those programs. Prerequisite: PSYC 3140 or consent of instructor. (Fall, Spring)

**PSYC 4180 Developmental Programs for Preschool Children (3 units).** An application of developmental theory to planning programs for individuals and groups of preschool-aged children. Includes: observing and recording child(ren)'s behavior, assessment of developmental needs, planning and implementing programs based upon assessment, evaluation of child(ren)'s development, and evaluating success of program. Prerequisites: PSYC 3010, 3170, 3180, and 3181. Concurrent enrollment in PSYC 4190 required. (Spring)

**PSYC 4190 Developmental Programs Laboratory (1 unit).** Laboratory work in the Child Development Center. Prerequisites: PSYC 3010, 3181; concurrent enrollment in PSYC 4180 required. (Spring)

**PSYC 4250 Drugs and Behavior (3 units).** The social, psychological, and physiological effects of all the major therapeutic and recreational drugs will be reviewed. The issues of drug use and abuse will be studied to develop effective strategies for prevention and rehabilitation of drug dependency. (Fall)

**PSYC 4350 Chemical Dependency Counseling (3 units).** Counseling methods effective for intervention and treatment of harmful alcohol/drug use are studied, including individual differences in diagnosis, recovery, and relapse. Methods to enhance counseling skills and occupational success will be practiced. Prerequisites: PSYC 4250. (Winter, even years)

**PSYC 4360 Seminar in Clinical and Abnormal Psychology (3 units).** Survey of theory and research in clinical and abnormal psychology, with emphasis on diagnosis and treatment systems. Prerequisites: PSYC 3140 or 3320, 3350, and consent of instructor. (Spring)

**PSYC 4380 Professional Issues and Practice (3 units).** Survey of contemporary issues and viewpoints in the practice of psychology. Includes descriptions of the settings in which psychologists and others in the related helping professions do their work, the nature of their skills, and kinds of clientele they serve. Issues include ethical and political ones, public vs. private practice, etc. This course is intended for advanced undergraduates. Prerequisites: Twelve upper-division units in psychology or consent of instructor. (Fall, even years)

**PSYC 4400 Cognitive Processes (3 units).** An introduction to the study of human information processing and such higher mental processes as thinking, attention, comprehension, imagery, memory, language, and reasoning. Prerequisites: PSYC 2010, 2020, or consent of instructor. (Spring, even years)

**PSYC 4520 Principles of Sensory Processes (4 units).** The psychophysical analysis of spatial and temporal properties of the human senses. (Lecture, 3 hours; laboratory, 3 hours) Prerequisite: BIOL 1010 or ZOOL 1050. (Spring, odd years)

**PSYC 4550 Practicum in Direct Instruction (3 units).** Acquisition and application of direct instruction teaching strategies. Students will work in small groups with children who have been identified as functioning below grade level in reading or math. Emphasis is on learning generalized direct instruction skills. Prerequisite: Consent of instructor. (Fall, Spring)

**PSYC 4560 Theory of Direct Instruction (3 units).** Analysis and evaluation of instructional theories as they apply to the special education aspects of curriculum and teacher-presentation strategies designed to maximize generalization and minimize errors for “high-risk” pupils. Prerequisite: EDSE 4310. (Fall)

**PSYC 4720 Experimental Analysis of Behavior (3 units).** The study of behavior principles, emphasizing respondent and operant conditioning, and their application in experimental research. Prerequisites: PSYC 2020 or consent of instructor and concurrent enrollment in PSYC 4722. (Fall)

**PSYC 4722 Experimental Analysis of Behavior Laboratory (1 unit).** Laboratory studies with infra-human species to demonstrate the basic principles of behavior. Prerequisites: PSYC 2020 and 4720 or 4790. (Fall)

**PSYC 4750 Applied Behavior Analysis for Severely and Learning Handicapped (3 units).** Application of learning principles to educational and behavioral problems of individuals, enabling the student to design and implement programs for special education populations. Gives the student skills in program management and evaluation. (Spring)

**PSYC 4770 Introduction to Counseling Techniques (3 units).** Training in basic counseling skills. Prerequisites: PSYC 3790, senior standing, and consent of instructor. (Fall, Spring)

**PSYC 4790 Behavioral Engineering (3 units).** The course consists of the basic principles and terminology of behavior analysis applied to a variety of human settings. Behavior change, program design, and evaluation will be discussed. Examples will be drawn from parent training, child management, self-management, clinical psychology, and everyday social interactions. Prerequisite: PSYC 2010 or equivalent. (Spring)

**PSYC 4800 Origins of Human Consciousness (3 units).** The origins of human consciousness are traced through both the biological and cultural histories of humanity. Prerequisites: Upper-division standing and consent of instructor. (Spring, odd years)

**PSYC 4810 Social Psychology of Personal Relationships (3 units).** A social psychological analysis of marital, friendship, and colleague relationships in contemporary society. The structure process and meaning of close relationships are explored from a variety of theoretical and conceptual viewpoints. Prerequisite: PSYC 2010 or consent of instructor. (Spring, odd years)

**PSYC 4821 Group Dynamics Workshop (1 unit).** An experiential introduction to group dynamics through a series of simulations. The objectives are 1) to increase awareness of group process, 2) to understand social psychological factors in group dynamics, and 3) to increase effectiveness in small groups. May be repeated for a total of 2 units. Prerequisite: Consent of instructor. (Fall, Spring)

**PSYC 4900 Advanced General Psychology (3 units).** Review of the major content areas of psychology. Synthesis of concepts, facts, and methods studied in specialized upper-division courses. Prerequisites: At least two 4000-level psychology courses and senior standing or consent of instructor. (Fall)

**PSYC 4910 Cooperative Education (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units. See catalog headings, “Requirements for the Bachelor of Arts Degree in Child Development” or “Requirements for the Bachelor of Arts Degree, Psychology” for details regarding application to the respective major. Prerequisites: Sophomore standing and consent of departmental coordinator.

**PSYC 4920 Topics in Child Development (Topics to be specified in Class Schedule) (1–5 units).** Development of a specific area in child development. Topics will vary each term; different topics may be taken for credit. Prerequisite: Consent of instructor. (Winter)

**PSYC 4930 Psychology Colloquium (1 unit).** Review of research in areas of psychology of current interest. Topics will include both applied and basic research. May be repeated for a total of 6 units, 2 of which can be applied to the major. (Fall, Spring)

**PSYC 4940 Field Work in Psychology (1–2 units).** Work of a psychological nature performed in schools, agencies, and institutions under joint supervision of the department and agency where assigned. May be repeated for credit. See catalog headings “Requirements for the Bachelor of Arts Degree in Child Development” or “Requirements for the Bachelor of Arts Degree, Psychology” for details regarding application to the respective major. Prerequisites: PSYC 2020 and prior consent of instructor. (Fall, Spring)

**PSYC 4945 Internship at Child Development Center as Instructional Aide (1 unit).** Internship in program preparation. Participation at the Child Development Center as teacher’s aide; assistance with curriculum planning, presentation and evaluation, under direct supervision of CDC director. May be repeated for credit. See catalog headings “Requirements for the Bachelor of Arts Degree in Child Development” or “Requirements for the Bachelor of Arts Degree, Psychology” for details regarding application to the respective major. Prerequisite: Consent of instructor (Fall, Spring)

**PSYC 4946 Internship at Child Development Center as Head Teacher (2 units).** Internship in program preparation for teaching. Participation at the Child Development Center as head teacher under direct supervision of CDC director. May be repeated for credit. See catalog headings “Requirements for the Bachelor of Arts Degree in Child Development” or “Requirements for the Bachelor of Arts Degree, Psychology” for details regarding application to the respective major. Prerequisite: Consent of instructor. (Fall, Spring)

**PSYC 4947 Internship at Child Development Center as Assistant Administrator (2 units).** Internship at the Child Development Center as Assistant Administrator under direct supervision of CDC director. May be repeated for credit. See catalog headings “Requirements for the Bachelor of Arts Degree in Child Development” or “Requirements for the Bachelor of Arts Degree, Psychology” for details regarding application to the respective major. Prerequisite: Consent of instructor (Fall, Spring)

**PSYC 4948 Child Development Senior Internship (2 units).** Students will intern in a University or community agency based on their chosen track in the Child Development major. Must be taken concurrently with PSYC 4965. Prerequisites: PSYC 3010, 3170, 3180 and senior standing.

**PSYC 4950 Selected Topics in Psychology (Topics to be specified in Class Schedule)** (1–5 units). Development of a specific area in psychology. Topics will vary depending on instructor. Different topics may be taken for a total of 6 units. Prerequisite: Prior consent of instructor.

**PSYC 4960 Organization and Administration of Early Childhood Education Programs** (4 units). An overview of administration in early childhood education programs. Topics to be covered include program organization and curriculum development, staffing, budget, legal and parent-relation responsibilities of program directors. Prerequisite: PSYC 4180. (Spring)

**PSYC 4965 Child Development Senior Seminar (1 unit)**. Capstone seminar for Child Development majors participating in senior internships. Includes discussion of career and professional issues, diverse applications of child development, and discussion and evaluation of internship experiences. Co-requisite: PSYC 4948; prerequisites: PSYC 3010, 3170, 3180, and senior standing.

**PSYC 4980 Individual Study (1–4 units)**. For students capable of independent work and desirous of undertaking specialized study. May be repeated for a total of 6 units. Prerequisite: Prior consent of instructor. (Fall, Spring)

**PSYC 4990 Senior Honors Thesis (3 units)**. The Senior Honors Thesis is an independent research project in psychology and is limited to qualified majors in their senior year. It is supervised by a committee of at least two faculty and is expected to be of publishable quality. Can be taken for a maximum of 6 units total, 3 of which may count toward the major. Prerequisites: Major in psychology, senior standing, invitation of instructor. (Fall, Spring)

## **Graduate**

**PSYC 5000 Advanced Quantitative Methods (3 units)**. Advanced psychological statistical methods and interpretation, and research design, stressing complex analysis of variance and multivariate methods. Prerequisites: PSYC 3000 and 4000 or consent of instructor, and graduate standing. (Spring)

**PSYC 5030 Psychodiagnostics I (3 units)**. Strategies of diagnostic evaluation with emphasis upon instruments for evaluation of intelligence, aptitudes, personality, and interests of adolescents and adults. Prerequisites: PSYC 3160, classified graduate standing, consent of instructor, and concurrent enrollment in PSYC 5042. (Fall)

**PSYC 5042 Psychodiagnostics I Laboratory (1 unit)**. Supervised work with the application of diagnostic strategies to representative cases. Prerequisite: Concurrent enrollment in PSYC 5030. (Fall)

**PSYC 5050 Psychodiagnostics II (3 units)**. Strategies of diagnostic evaluation with emphasis upon instruments for evaluation of intelligence, achievement, learning abilities, and emotional adjustment of preschool and school age children. Prerequisites: PSYC 3160, classified graduate standing, consent of instructor, and concurrent enrollment in PSYC 5060.



**PSYC 5060 Psychodiagnostics II Laboratory (1 unit).** Supervised work with the application of diagnostic strategies to representative cases. Prerequisite: Concurrent enrollment in PSYC 5050.

**PSYC 5070 Practicum in Childhood Diagnostics & Intervention (3 units).** A minimum of 6 diagnostic reports, including remedial recommendations, will be completed. At least 3 of the cases will be followed completely through intervention. Students will receive one hour per week of individual supervision. Work will be done in local agencies such as the Child Development Center. Prerequisites: PSYC 5050 and 5060 or PSYC 5090 and consent of instructor.

**PSYC 5080 Legal and Ethical Issues in Psychology and Counseling (3 units).** This course attempts to engage the student in the struggle with legal and ethical issues that most affect the practice of professional psychology. Prerequisites: PSYC 4770 and graduate standing. (Spring)

**PSYC 5090 Behavioral Assessment (3 units).** The general principles of behavioral assessment will be the primary subject matter with traditional psychological assessment procedures introduced for comparison purposes. Areas such as observation methods, reliability, and single-subject evaluation designs will be studied in detail. Applications of such evaluation techniques as they apply to intervention strategies will be examined. Theories and applications of commonly used psychological tests (such as the MMPI, WAIS and Rorschach) will be discussed and their relevance compared to behavioral measures. Prerequisites: Graduate standing and PSYC 4790. (Spring, even years)

**PSYC 5130 Advanced Human Development (3 units).** Empirical research on theoretical constructs of human development. Prerequisites: PSYC 3140 or equivalent, four upper-division courses in psychology, and graduate standing. (Fall)

**PSYC 5640 Advanced Seminar in Behavior Change (3 units).** Complex topics related to human learning and psychopathology will be the primary subject matter. Such areas as thinking, creativity, problem solving, phylogeny and ontogeny of behavior will be examined from a behavioral perspective. This perspective will be compared to the personality theory framework which produced the current DSM III-R diagnostic system. The etiology, diagnosis, treatment, and prognosis of various psychological disorders will be studied using the DSM III-R as a guide and current behavioral theory as it applies. Prerequisites: PSYC 4720 and 4722. PSYC 4750 and 4790 recommended. (Spring, odd years)

**PSYC 5650 Child Clinical Interventions (3 units).** This course covers child clinical issues including therapy approaches and assessment for behavioral and emotional disorders; child physical, sexual and emotional abuse; and mandated child abuse reporting laws. Prerequisite: PSYC 5130.

**PSYC 5690 Counseling Sexual Problems (4 units).** This course will review, in addition to the discipline of sex therapy, the more general practice of sexuality counseling, including sex education, values clarification, reassessment of attitudes, relationship issues, self image, sexual identity, and sex-role development. Sexuality issues, requiring professional counseling, include: Divorce, adolescent sexuality, aging, disabilities, family planning, abortion, sexual assault victims, incest, alcohol

and chemical dependency, gay and lesbian identifies, chronic illness, and sexually transmitted diseases. These issues will be integrated into the course coverage of interviewing, assessment, and treatment approaches. Prerequisites: Second year classified graduate standing and PSYC 5780. (Fall)

**PSYC 5770 Substance Abuse and Chemical Dependency Counseling (1 unit)**. This course will review diagnostic and assessment practices, goal setting, treatment planning, multicultural issues, legal and ethical issues. A systematic approach to treatment will be emphasized along with various theoretical approaches. Prerequisite: Classified Graduate status.

**PSYC 5780 Advanced Counseling (3 units)**. Counseling practices focused on a method of psychotherapy which includes: Assessment, establishing mutual goals, treatment interventions, and termination issues. Practice in the techniques of counseling and client file record keeping. Child counseling applications will be included. Prerequisites: PSYC 3790, 4770, and classified graduate standing. PSYC 5030, 5042, and previous or concurrent enrollment in PSYC 5080 are preferred. (Spring)

**PSYC 5790 Family Counseling Theory and Practice (3 units)**. Study of theory and techniques of conjoint family therapy with consideration of such topics as parent-child relationships, human sexuality, and combined families. Prerequisites: PSYC 3790, 4770, and graduate standing. (Spring)

**PSYC 5800 Marriage and Family Theory (2 units)**. The family is examined as a social and psychological entity. Theoretical approaches to understanding family structure and interaction are reviewed. Special emphasis is placed upon developing an understanding of the diversity of family forms in contemporary American society and on exploring the relationship of these forms to social, cultural and psychological factors. Prerequisites: Graduate standing and consent of instructor. Undergraduate course in Marriage and Family recommended. (Fall)

**PSYC 5810 Group Dynamics Seminar (3 units)**. A review of the structure and processes of small groups. The meaning of group membership in contemporary society is explored as a means of understanding the psychological impact of group membership. Social psychological theory provides a backdrop for a variety of topics, including group development conflict, power, leadership, and decision making. (Formerly 4820) Prerequisite: PSYC 3310 or consent of instructor. (Fall)

**PSYC 5910 Practicum in Counseling and Diagnostics (3 units)**. Supervised client contact hours in individual, couples, family, or group counseling depending on agency providing practicum experience. Emphasis on formal assessment, diagnostic testing, client charting, treatment planning and development of student's own theoretical orientation. Students will make regular case presentations, receive in-service training and write up assessment and treatment reports. Prerequisites: PSYC 5030, 5080, 5780, second year classified graduate standing and approval by Graduate Committee. Prior practical experience strongly recommended. (Fall, Spring)

**PSYC 5930 Practicum in Behavior Modification (3 units)**. The course consists of supervised experience in the assessment and modification of behavior with various types of clients. Activities will include assessment interviews and observations, analysis of controlling variables within the immediate environment of the client, assessment of resources for change, and the implementation and evaluation of

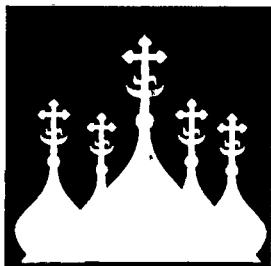
behavior change procedures. Students will give oral presentations and evaluation to the faculty supervisor and fellow practicum students on a regular basis during case conferences. The typical client will be from a family counseling agency or will be a developmentally delayed child or young adult living in the family residence or group home or be a patient in a psychiatric facility. Prerequisites: PSYC 4720 or 4790 and consent of instructor. (Fall)

**PSYC 5940 Field Work (1–4 units).** Work of a psychological nature performed in schools, agencies, and institutions under joint supervision of the University and agency where assigned. May be repeated for a total of 6 units. Prerequisites: Graduate standing and prior consent of instructor. (Fall, Spring)

**PSYC 5960 Seminar in Applied Psychology (3 units).** This course is devoted to the study of strategic therapies as applied to both individuals and families. It is designed to help the student benefit from supervision in clinical settings which utilize strategic approaches. Prerequisite: Consent of instructor. (Winter, even years)

**PSYC 5980 Individual Study (1–4 units).** For qualified postbaccalaureate students in need of advanced and specialized study. Different topics may be taken for a total of 6 units. Exception to the 6 unit limit may be granted by the Graduate Committee. Prerequisite: Prior consent of instructor. (Fall, Spring)

**PSYC 5990 Master's Thesis (1–3 units).** Preparation of a thesis in area of specialty for partial fulfillment of requirements. Prerequisites: Admission to classified graduate standing and consent of instructor. (Fall, Spring)



# Russian and East European Studies

## Degree Minor

**Office:** Classroom Building 101, (209) 667-3181  
**Coordinator:** H. Dieter Renning (Economics)  
**Advisers:** Melvin H. Aamodt (Geography), Samuel A. Oppenheim (History), H. Dieter Renning (Economics), Gary C. Shaw (Politics and Public Administration)

Russian-East European Studies is an interdisciplinary minor available to those who seek a coordinated and in-depth knowledge of that area. This minor is both for those who wish this knowledge for its own sake and for those who would like to employ it subsequently in either the public or private sector. Students wishing to use the minor for future employment purposes are encouraged to enroll in language courses of that area.

## Minor in Russian-East European Studies

### Requirements for the Minor (20 units minimum)

1. Complete University requirements for a Bachelor of Arts degree (51 units minimum).
2. Complete the requirements for a major.
3. Complete the minor of not less than 20-units.

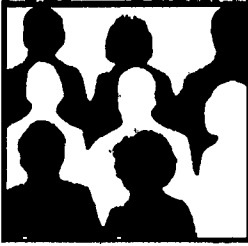
### The Minor

1. Select 12 to 16 units from the following list, to include at least one course from each of three different disciplines:

ECON 4420	The Economy of Russia, 3 units
GEOG 3570	Geography of Russia and East Europe, 3 units
HIST 4420	Russia to 1917, 3 units
HIST 4430	Twentieth-Century Russia, 3 units
PSCI 3055	Marx on the Human Condition, 3 units
PSCI 3450	Comparative Politics: Eastern Europe, 3 units

**Note:** *At its discretion, the Russian-East European Studies Committee may designate additional courses—Winter Term or regular terms—that might apply toward this list. These could be courses from the above disciplines or from other disciplines.*

2. Complete the minor as follows:
  - a. Select four units in the form of two 2-unit courses in Individual Study (ECON 4980, ENGL 4980, GEOG 4980, HIST 4980, PSCI 4980, or other appropriate disciplines) which delve more deeply into one or more aspects of previous course work taken in the minor; *and/or*
  - b. Select four units of MDIS 4980, Russian-East European Studies Research Paper, in which the student will write an interdisciplinary research paper. The student will write the paper under the supervision of appropriate instructors from at least two academic disciplines.



## Social Sciences

Office: Classroom Bldg 132, (209) 667-3388  
 Coordinator: John T. Wold

The Bachelor of Arts, Social Sciences is an interdepartmental degree program consisting of courses in the following disciplines: Anthropology, Communication Studies, Economics, Ethnic Studies, Geography, History, Political Science, Psychology, and Sociology. Students select courses from any three of the above disciplines. The program offers a wide variety of courses dealing with human interaction in past and present society and acquaints students with contemporary social problems, their causes, and their potential solutions. Additionally, a course in the methods of scientific investigation in the social sciences provides students with valuable analytical skills.

### Bachelor of Arts, Social Sciences

#### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the Interdepartmental Studies major of no fewer than 35 upper-division units, as approved by the adviser. Of these, no more than 8 units of CR-graded course work in courses graded exclusively CR/NC may apply.
3. Completion of a minor is not required.

*Note: Immediately upon entering the interdisciplinary studies major program, students should select the three disciplines that will form their major.*

#### The Major (35 units minimum)

1. Complete the following two courses (5 units):
  - SSCI 3000 Library Resources for the Social Sciences, 2 units
  - SSCI 4960 Social Sciences Interdisciplinary Seminar, 3 units
2. Complete one course in introductory methodology (3 units minimum):
  - HIST 3000 Introductory Seminar in History, 3 units
  - PSCI 2000 Introduction to Political Science, 3 units
  - PSYC 2020 Introduction to Psychological Methods, 3 units
  - SOCL 3030 Research Methods, 4 units
  - SPCH 3900 Communication Research Methods, 4 units
  - SSCI 3010 Introduction to Social Science Methodology, 3 units
3. Select three of the disciplines listed below for the upper-division major, completing the prerequisite courses for each. Then complete a minimum of 12 units in one of the three disciplines and a minimum of 9 units in each of the two other disciplines, as approved by the adviser.

**Anthropology**

- a. Prerequisite: ANTH2060 Introduction to Cultural Anthropology, 3 units
- b. Select any upper-division courses, with the adviser's consent. Note additional prerequisites to certain courses. Options available are:
  - General anthropology
  - Ethnography
  - Ethnology
  - Prehistoric archaeology
  - Physical anthropology
  - Linguistics
  - Special studies

**Communication Studies**

- a. Prerequisite: Complete one of the following:
  - SPCH 2011 Approaches to Human Communications, 3 units
  - SPCH 2200 Introduction to Mass Media, 3 units
- b. Select nine to twelve units from the following areas:
  - Basic structures and processes: language and communication
  - Communication systems

**Economics**

- a. Prerequisite:
  - ECON 2500 Principles of Economics I, 3 units, *or*
  - ECON 2510 Principles of Economics II, 3 units
- b. Upper-division courses: select nine to twelve units from each of three or four of the following fields:
  - Banking, Investment and Managerial Economics
  - International Trade and Alternative Economic Systems
  - Public Sector Economics
  - Labor Economics
  - Economic History

**Ethnic Studies**

- a. Prerequisite: Complete an introductory 2000-level ethnic studies course, 3 units
- b. Select nine to twelve units from the following, with adviser's consent:
  - Minority culture
  - Minority history
  - Minority life-styles
  - Theory and methodology: minority-majority perspectives

**Geography**

- a. Prerequisite: Complete one of the following:
  - GEOG 2010 Introduction to the Natural Environment, 3 units
  - GEOG 2020 Introduction to Cultural Geography, 3 units
  - GEOG 2420 Third World Regions, 3 units

- b.** Select nine to twelve upper-division units from the following:
  - Topical human geography  
GEOG 3010,3020,3300,4070,4210,4350,4650,4800,4840
  - Regional geography  
GEOG 3340,3350,3510,3550,3570,3590,3650,4210,4610
  - Methodology geography  
GEOG 3700,4700,4710,4730,4840

*Note:* Students must take at least one course from topical human geography and one course from regional geography. Only one unit of the self-guided field trip courses, GEOG 3930, 3950, or 3960 may be applied to the Social Sciences Major.

**History**

- a.** Prerequisite: Complete a one-year sequence of lower-division history in World civilization, Western civilization, non-Western civilization, or U.S. history.
- b.** Select nine to twelve units. Courses shall be selected so that students will have at least one upper division course in each of the following fields:
  - European history
  - United States history
  - Non-Western history

**Political Science**

- a.** Prerequisite:  
PSCI 1201 American Government, 3 units
- b.** Complete nine to twelve units as follows:
  - i.** American politics: 2 courses
  - ii.** Additional one or two courses to be selected from the following:
    - Political theory and methodology
    - Comparative politics
    - International relations

**Psychology**

- a.** Prerequisites:
  - i.** PSYC 2010 Introduction to Psychology, 3 units, *and*
  - ii.** PSYC 2020 Introduction to Psychological Methods, 3 units; *or* SOCL 3030 Research Methods, 4 units, *or* SSCI 3010 Introduction to Social Science Methodology, 3 units
- b.** Complete nine to twelve units from each of three or four of the following areas:
  - Fundamentals of Psychology
  - Biological Bases of Psychology
  - Principles of Human Behavior
  - Foundations of Applied Psychology

**Sociology****a. Prerequisites:**

- i.** SOCL 1010 Introduction to Sociology, 3 units, *and*
- ii.** SOCL 3030 Research Methods, 4 units, *or*  
 PSYC 2020 Introduction to Psychological Methods, 3 units, *or*  
 SPCH 3900 Communication Research Methods, 4 units, *or*  
 SSCI 3010 Introduction to Social Science Methodology, 3 units

**b. Select nine to twelve units from the following, with adviser's consent:**

- Human services
- Criminal justice
- General sociology

**International Studies Concentration****Director:** Steve Hughes

The International Studies program provides a framework of study for students interested in the interrelations of nations and peoples. Because these interrelations are complex and operate at different levels (economic, political, military, cultural, etc.), a student must be selective regarding the areas to be investigated. Thus the focus of a student's course work in this concentration may be on a particular area (Europe, Africa, the Middle East, Latin America, etc.), or on international problems (economic, political, diplomatic, etc.), on international organizations and their functions, or aspects of intercultural communications, etc. To identify the most appropriate pattern of courses, the student will prepare his or her program in close consultation with the Program Director. The Director should also be consulted regarding career opportunities.

**Requirements**

- 1.** Complete University requirements for the Bachelor of Arts degree (51 units minimum).
- 2.** Complete the following two courses (5 units):  
 SSCI 3000 Library Resources for the Social Sciences, 2 units  
 SSCI 4960 Social Sciences Interdisciplinary Seminar, 3 units
- 3.** Complete one lower-division course from each of the sections below (12 units):
  - a. Multidisciplinary Studies**  
 GEOG 2420 Third World Regions, 3 units
  - b. Economics**  
 ECON 2500 Principles of Economics I, 3 units, *or*  
 ECON 2510 Principles of Economics II, 3 units
  - c. Political Science**  
 PSCI 2030 Global Politics, 3 units
  - d. History**  
 HIST 1010 World Civilizations I, 3 units, *or*  
 HIST 1020 World Civilizations II, 3 units
- 4.** Complete the International Studies concentration of 30 units as approved by the adviser. Of these, no more than 8 units of CR-graded course work in courses graded exclusively CR/NC may apply.



5. Completion of a minor is not required.

### **The Concentration (30 units)**

Select a minimum of 12 units in one of the following disciplines and a minimum of 9 units in each of two others, as approved by the adviser:

*Note: Some of these disciplines require additional lower-division introductory course work not already specified in Section A above. Students will select courses from the three preferred disciplines.*

#### ***Anthropology***

- ANTH 3000 Anthropology and Modern Social Issues, 3 units
- ANTH 3101 Cultures of Asia and the Pacific, 3 units
- ANTH 3320 Native Peoples of Latin America, 3 units
- ANTH 3900 Women: A Cross-Cultural Perspective, 3 units
- ANTH 4140 Urban Anthropology, 3 units
- ANTH 4150 Comparative Religion, 4 units
- ANTH 4170 Economic Anthropology, 3 units
- ANTH 4211 The World In Change, 3 units
- ANTH 4221 Folk Literature and Arts, 3 units
- ANTH 4980 Individual Study, 1–4 units

#### ***Economics***

- ECON 4000 Intermediate Theory (Macroeconomics), 3 units
- ECON 4010 Economic Thought, 3 units
- ECON 4050 Comparative Economic Systems, 3 units
- ECON 4200 Intermediate Theory (Microeconomics), 3 units
- ECON 4401 Third World Economics, 3 units
- ECON 4415 International Economics, 3 units
- ECON 4420 The Economy of Russia, 3 units
- ECON 4455 The U.S. and World Trade, 3 units
- ECON 4980 Individual Study, 1–4 units

#### ***Geography***

- GEOG 3010 Cultural Geography, 3 units
- GEOG 3020 Human Ecology, 3 units
- GEOG 3300 Geography of Economic Activities, 3 units
- GEOG 3550 Geography of Europe, 3 units
- GEOG 3570 Geography of Russia and East Europe, 3 units
- GEOG 3590 Geography of Asia, 4 units
- GEOG 4070 Agricultural Geography, 4 units
- GEOG 4210 Geographic Problems in the Developing World, 3 units
- GEOG 4980 Individual Study, 1–4 units

#### ***History***

- HIST 3000 Introductory Seminar in History, 3 units
- HIST 3090 Contemporary World History, 3 units
- HIST 3230 19th Century Europe, 3 units
- HIST 3240 20th Century Europe, 3 units
- HIST 3510 Latin America in Colonial Times, 3 units

- HIST 3520 Latin American States Since Independence, 3 units  
 HIST 3800 East Asia in Traditional Times, 3 units  
 HIST 3810 East Asia in the Modern World, 3 units  
 HIST 3860 Africa Before 1885, 3 units  
 HIST 3880 Contemporary Africa, 1945 to the Present, 3 units  
 HIST 3891 The Oriental Mind, 3 units  
 HIST 4041 Colonialism and the Modern State in Africa and Asia, 3 units  
 HIST 4210 European Intellectual History: Renaissance to the Present, 3 units  
 HIST 4340 Modern Germany, 3 units  
 HIST 4360 British Culture, 1603 to the Present, 3 units  
 HIST 4420 Russia to 1917, 3 units  
 HIST 4430 Twentieth-Century Russia, 3 units  
 HIST 4600 American Diplomatic History, 3 units  
 HIST 4800 Modern China, 3 units  
 HIST 4840 Modern Japan, 3 units  
 HIST 4850 China and the United States, 3 units  
 HIST 4960 Directed Reading Seminar in History, 4 units  
 HIST 4980 Individual Study, 1-4 units

#### **Political Science**

- MDIS 4400 The Politics of the Environment, 3 units  
 PSCI 3410 Comparative Politics: Latin America, 4 units  
 PSCI 3450 Comparative Politics: Eastern Europe, 3 units  
 PSCI 3470 Comparative Politics: Asia, 3 units  
 PSCI 3600 International Relations, 4 units  
 PSCI 4500 The Politics of World Hunger, 4 units  
 PSCI 4630 International Politics of Industrial Societies, 3 units  
 PSCI 4640 Foreign Policy Issues, 3 units  
 PSCI 4680 U.S.-Latin American Relations, 4 units  
 PSCI 4980 Individual Study, 1-4 units

#### **Sociology**

- SOCL 3200 Social Change, 3 units  
 SOCL 4400 Political Sociology, 3 units  
 SOCL 4520 Personality and Society, 3 units  
 SOCL 4800 Formal Organizations in Modern Society, 3 units  
 SOCL 4980 Individual Study, 1-4 units

**Note:** *On entering the International Studies concentration, students should work with the Director to develop a tentative program for the remainder of their undergraduate course work. Students should work out a trial study list prior to each advising appointment. In such a broad major, close cooperation between adviser and advisee is necessary to avoid mistakes.*

## Urban and Community Studies Concentration

**Director:** Kenneth Entin

The Urban and Community Studies Concentration is an undergraduate course of study for students who wish to investigate major problems which result from the growing complexity of our urban environment. Environmental, behavioral, and administrative aspects of urban areas are considered, along with useful techniques for studying urban problems.

Students who pursue this interdisciplinary program obtain a background for positions in a variety of governmental or voluntary agencies, as well as preparation for graduate training in such professional programs as public administration, urban or regional planning, social welfare, etc.

Internships for students in this concentration are available through the Departments of Politics and Public Administration, Sociology, and Anthropology/Geography. Students in the Urban and Community Studies concentration who wish to be considered for participation should contact these departments for additional information.

### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the concentration (12-13 units):
  - a. SOCL 1010 Introduction to Sociology, 3 units
  - b. PSCI 1201 American Government, 3 units
  - c. ECON 2500 Principles of Economics I, 3 units
  - d. *Complete one of the following research methods courses:*
    - CIS 2000 Introduction to Business Computer Systems, 3 units
    - CS 1000 Introduction to Computers, 3 units
    - SOCL 3030 Research Methods, 4 units
    - SSCI 3010 Introduction to Social Science Methodology, 3 units
3. The following courses are recommended but not required:
  - GEOG 3700 Cartography, 3 units
  - MATH 1600 Statistics, 4 units
  - SOCL 4030 Research Analysis, 4 units
4. Complete the Urban and Community Studies concentration as outlined below.
5. Completion of a minor is not required.

### The Concentration (35 units minimum)

Complete the Urban and Community Studies Concentration as outlined below:

1. *Urban Environment*, 9-10 units
  - ANTH 4140 Urban Anthropology, 3 units
  - ECON 4600 Urban Economics, 3 units
  - GEOG 4350 Urban Geography, 4 units
  - HIST 4620 America: The Rise of a Technological Society, 3 units
2. *Urban Behavior*, 3 units
  - SOCL 3200 Social Change, 3 units

3. *Urban Administration and Politics*, 6–7 units
  - PSCI 3300 Introduction to Public Administration, 3 units
  - PSCI 4325 Land Use Planning, 3 units
  - PSCI 4330 Urban Politics, 4 units
4. *Junior/Senior Research Topic*—Complete four units in the form of two 2-unit courses in Individual Study (chosen from ANTH 4980, ECON 4980, ETHS 4980, GEOG 4980, HIST 4980, PSCI 4980, SOCL 4980) completing an interdisciplinary research paper or research project under the supervision of appropriate instructors from the two selected disciplines. The research topic must focus on an aspect of urbanism or community life in California. Students must have at least junior standing and at least 12 upper-division units in the concentration before registering for this program requirement. Both two-unit courses must be taken in the same semester.
5. SSCI 3000 Library Resources for the Social Sciences, 2 units
6. Complete the remainder of the required 35 units from the list below, or from courses not used in fulfilling the Urban Environment or Urban Behavior requirements above. Additional work beyond the minimum requirements for the concentration is highly recommended.
  - ECON 4540 Public Finance & Fiscal Policy, 3 units
  - ETHS 4200 The Minority Experience, 3 units
  - GEOG 3020 Human Ecology, 3 units
  - GEOG 3510 Geography of North America, 4 units
  - GEOG 3700 Cartography, 3 units
  - GEOG 4940 Internship in Geography, 1–6 units\*
  - HIST 3640 Contemporary America, 3 units
  - HIST 4680 The American Mind, 3 units
  - PSCI 3230 Political Parties and Interest Groups, 4 units
  - PSCI 3330 California Politics, 3 units
  - PSCI 4300 Organization Theory, 4 units
  - PSCI 4315 Public Policy Making, 3 units
  - PSCI 4600 Statistical Analysis for Politics, 4 units
  - PSCI 4940 Public Administration Internship, 3 units\*
  - SOCL 3150 The Family, 3 units
  - SOCL 3200 Social Changes, 3 units
  - SOCL 4030 Research Analysis, 4 units
  - SOCL 4790 Social Welfare Services, 3 units

*Note:* The Director of the Urban and Community Studies concentration may from time to time designate certain Winter Term or other courses as applicable to the concentration. See the Director for further information.

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\* Available only to students in departmental internship program.

## Teaching Credential

Students who 1) plan to apply for admission to the single subject credential program at CSU Stanislaus, 2) plan to qualify to teach in the Social Sciences, and 3) do not intend to take the N.T.E. Area Examination for the Social Sciences should complete the CSUS Social Sciences waiver program. The requirements for the waiver differ from the requirements for the Bachelor of Arts degree in the Social Sciences. Upon completion of the waiver program below, the program coordinator will certify to the coordinator of the credential program qualification for a subject-matter waiver in the Social Sciences.

### 1. *Economics*—Complete one course from the following:

- ECON 3100 Economic History of the United States, 3 units
- ECON 4010 Economic Thought, 3 units
- ECON 4050 Comparative Economic Systems, 3 units
- ECON 4335 Free Enterprise Economics, 4 units
- ECON 4500 Economics of Investment, 4 units

### 2. *Geography*—Complete one course from each group below:

#### a. Cultural Geography

- GEOG 2020 Introduction to Cultural Geography, 3 units
- GEOG 3010 Cultural Geography, 3 units

#### b. Regional Geography

- GEOG 2400 World Regional Geography, 3 units
- GEOG 2420 Third World Regions, 3 units

#### c. Natural/Cultural Geography

- GEOG 3020 Human Ecology, 3 units
- GEOG 3300 Geography of Economic Activities, 3 units
- GEOG 3340 California Cultures and Environments, 3 units
- GEOG 3510 Geography of North America, 3 units

### 3. *History*

#### a. California History

- HIST 4670 California History, 3 units *and*

#### b. United States History

Complete two courses from the following:

- HIST 2600 Problems in U.S. History, 3 units
- HIST 3610 Colonial America, 3 units
- HIST 3620 Early National America, 3 units
- HIST 3630 America After the Civil War, 3 units
- HIST 3640 Contemporary America, 3 units *and*

Complete one course from the following:

- HIST 4640 Constitutional History of the United States, 3 units
- HIST 4660 American Religious History, 3 units
- HIST 4680 The American Mind, 3 units *and*

#### c. World History

- HIST 1010 World Civilizations I, 3 units *and*
- HIST 1020 World Civilizations II, 3 units *and*

Complete one course from the following:

- HIST 3510 Latin America in Colonial Times, 3 units
- HIST 3520 Latin American States Since Independence, 3 units
- HIST 3800 East Asia in Traditional Times, 3 units
- HIST 3810 East Asia in the Modern World, 3 units
- HIST 3860 Africa Before 1885, 3 units
- HIST 3880 Contemporary Africa, 1945 to the Present, 3 units
- HIST 4041 Colonialism and the Modern State in Africa and Asia, 3 units *and*

Complete one course from the following:

- HIST 3090 Contemporary World History, 3 units
- HIST 3240 Twentieth Century Europe, 3 units
- HIST 3400 The Great Teachings, 3 units

#### 4. *Political Science*

- PSCI 1201 American Government, 3 units *and*

Complete two courses from the following:

- PSCI 3030 American Political Thought, 3 units
- PSCI 3210 Legislative Process, 3 units
- PSCI 3220 Constitutional Law, 4 units
- PSCI 3225 Civil Liberties, 3 units
- PSCI 3230 Political Parties and Interest Groups, 4 units
- PSCI 3235 Political Campaigns and Elections, 3 units
- PSCI 3250 Public Opinion and Voting Behavior, 4 units
- PSCI 3320 Executive Legislative Relations, 3 units
- PSCI 3330 California Politics, 3 units
- PSCI 4210 The Judicial Process, 3 units
- PSCI 4220 Simulation—Supreme Court Decision Making, 3 units
- PSCI 4230 The Chief Executive, 3 units
- PSCI 4330 Urban Politics, 4 units
- PSCI 4350 Government, Business, and the Economy, 3 units *and*

Complete one course from the following:

- PSCI 3010 Modern Political Thought, 3 units
- PSCI 3210 Legislative Process, 3 units\*
- PSCI 3220 Constitutional Law, 4 units\*
- PSCI 3225 Civil Liberties, 3 units\*
- PSCI 3300 Introduction to Public Administration, 3 units
- PSCI 3600 International Relations, 4 units
- PSCI 4325 Land Use Planning, 3 units

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\* May be selected if not completed under the preceding section.

## Course Descriptions

***SSCI 2970 Selected Topics During Winter Term (4 units).***

***SSCI 3000 Library Resources for the Social Sciences (2 units).*** A survey of the various library resources necessary for research in the social sciences, e.g. abstracts, indexes, bibliographies, dictionaries, encyclopedias, handbooks, government documents, newspapers, and periodicals; together with footnote and bibliographical citation techniques. (Fall, Spring)

***SSCI 3010 Introduction to Social Science Methodology (3 units).*** A general introduction to the different types of methodologies used by the various social science disciplines. An important part of the course will be to read and critique representative works of social science research in the student's areas of interest.

***SSCI 4910 Cooperative Education (2–4 units).*** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisites: Sophomore standing and consent of department coordinator.

***SSCI 4960 Social Sciences Interdisciplinary Seminar (3 units).*** Discussions and papers based on concepts, theories, information, and techniques from several social science disciplines. Prerequisites: Completion of SSCI 3000 and seven other upper-division courses in the major. (Fall, Spring)

***SSCI 4961 Teaching Social Studies (3 units).*** This course is designed for students who intend to become junior or senior high school teachers. Students will learn a variety of exciting strategies and techniques for teaching history, government and politics. Prerequisite: Senior standing.



## Master of Social Work Program

Office: Classroom Bldg 213D, (209) 667-3408  
 Coordinator: Walter E. Doraz

The general aim of the Master of Social Work program is to prepare graduate level professional social workers in response to the growing human service needs of the university's service area with a commitment to professional social work practice in the public sector and sensitivity and competence in working with economically and culturally diverse populations. Students graduating from this program will have advanced analytic and practice skills sufficient for self-critical, accountable, and ultimately autonomous practice.

This program is a sixty (60) unit, four-semester curriculum organized around two concentrations based on a field of practice framework. In the second year of study students must choose between a concentration in Children, Youth, and Families, or a concentration in Gerontology. The first year of study will form the professional foundation upon which the concentrations will build. Each concentration area will include a two semester field practicum in social agency related to that field of practice.

The field of Social Work is very broad, incorporating several fields of practice and a wide range of practice roles. The Master of Social Work (MSW) degree is thus one of the most versatile master's level degree among the human service professions.

Master's level social workers may work as line staff providing counseling services to individuals, groups, couples and families or they may work as administrators of human service programs and agencies, as well as, program developers, planners, evaluators or policy makers.

The MSW degree may also satisfy academic preparation requirements for state regulated licenses and certifications such as the Licensed Clinical Social Worker (LCSW), the Marriage, Family and Child Counselor (MFCC) license, and the Pupil Personnel Services Certification required of personnel working in school systems.

A more elaborate description of courses, program and curriculum will appear in the 1995 catalog. Specific questions regarding the MSW program or curriculum should be directed to the coordinator. The University is in the process of applying for certification from the National Council on Social Work Education.



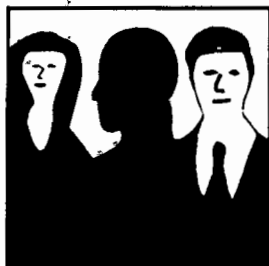
## Course Descriptions

***SW 5000 Social Welfare Policy (3 units).*** Historical development and overview of major social welfare programs and contemporary models of policy analysis. Prerequisites: Classified graduate standing and consent of instructor. (Fall)

***SW 5005 Human Behavior and Social Environment I (3 units).*** Individual growth and development from infancy through adolescence incorporating developmental psychological theory and ecological perspectives to the family and individual life cycles within a cultural context. Prerequisite: Classified graduate standing, consent of instructor.

***SW 5010 Human Behavior and Social Environment II (3 units).*** Individual growth and development from early adulthood through old age incorporating developmental psychological theory and ecological perspectives to the family and individual life cycles within a cultural context. Prerequisites: Classified graduate standing; consent of instructor; completion of SW 5005.

***SW 5015 Principles of Management in the Human Services (3 units).*** Study of the role of administration of formal organizations in the delivery of human services. Prerequisites: SW 5000 and consent of instructor.



## Sociology

**Office:** Classroom Building 213, (209) 667-3408  
**Chair:** Clyde V. Collard  
**Faculty:** Donald W. Bowers, Clyde V. Collard, Walter E. Doraz, Rhoda Estep, George D. Muedeking, Cecil A. Rhodes, Stephen J. Schoenthaler, Frank J. Tripi

The Department of Sociology/Criminal Justice offers the Bachelor of Arts degrees in Sociology and Criminal Justice with an optional course concentration in Human Services for sociology majors and concentrations in Law Enforcement and Corrections for criminal justice majors. (See the "Criminal Justice" section of this catalog for criminal justice degree program requirements and course descriptions.) In addition, liberal studies and social science majors may select a sociology concentration as a core area of study. The department also participates in and administers the interdisciplinary minor in Gerontology.

The study of sociology and/or criminal justice provides students with a rewarding academic experience as well as a variety of career possibilities. Recent graduates of the department have applied their training to enter prestigious graduate schools or to obtain entry level management and administrative positions with such varied organizations as probation departments; correctional institutions; federal, state, and local law enforcement agencies; local welfare and mental health departments, the criminal courts, and social service agencies.

### Bachelor of Arts, Sociology

Sociology majors receive a strong grounding in traditional and contemporary social theory, methods of conducting social research, and techniques of analyzing social data. Students can select elective courses from the subject area offerings in the sociology curriculum. These areas include, for example, *social institutions* such as the family, religion, and medicine, and *social processes* such as social change, social deviance, personality and society, and drug use.

The Human Services concentration applies sociological theory and methods to human services issues, providing a conceptual framework for students considering careers in human service areas and for those planning to enter graduate social work programs. The concentration also allows students to examine institutions such as the family with reference to issues such as current social welfare programs and alcoholism.

### Requirements

1. Complete University requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following courses (3 units minimum):

SOCL 1010 Introduction to Sociology, 3 units

*Note: MATH 1600 Statistics, 4 units, is recommended.*

3. Complete the major of not less than 36 upper-division units in sociology, of which no more than eight units of CR-graded course work in courses graded exclusively CR/NC may apply toward the major. Maintain an average-grade of "C" or better in the selected major.
4. Completion of a minor is not required.

### **The Major in Sociology (36 units minimum)**

1. Complete the following courses (15 units):
  - SOCL 3000 Classical Theory, 3 units
  - SOCL 3030 Research Methods, 4 units
  - SOCL 3400 Contemporary Theory, 4 units
  - SOCL 4030 Research Analysis, 4 units
2. Select one of the following options (21–22 units):
  - a. **General Major Option** (22 units)
    - i. Complete SOCL 4960 Senior Seminar, 4 units
    - ii. Select 18 units of upper-division sociology electives as approved by major adviser.
  - b. **Human Services Concentration** (21 units)
    - i. Complete the following required courses for the concentration, (12 units):
      - SOCL 4790 Social Welfare Services, 3 units
      - SOCL 4800 Formal Organizations and Industrial Society, 3 units
      - SOCL 4940 Sociological Internship, 6 units
    - ii. Select one course from the following group (3 units):
      - SOCL 3150 The Family, 3 units
      - SOCL 3160 Sociology of Youth, 3 units
      - SOCL 3170 Sociology of Sex Roles, 3 units
    - iii. Select at least two courses from the following group (6 units):
      - SOCL 4170 Victimology, 3 units
      - SOCL 4700 Medical Sociology, 3 units
      - SOCL 4710 Sociology of Aging, 3 units
      - SOCL 4720 Sociology of Death, 3 units
      - SOCL 4730 Alcohol and Alcoholism, 3 units
      - SOCL 4740 Sociology of Mental Health, 3 units
      - SOCL 4750 Sociology of Drug Use, 3 units

### **Criminal Justice Major** (See "Criminal Justice" section in this catalog).

### **The Minor in Sociology**

1. Complete the following (19 units):
  - SOCL 1010 Introduction to Sociology, 3 units
  - SOCL 3000 Classical Theory, 3 units
  - SOCL 3030 Research Methods, 4 units,
2. Select nine units of upper-division electives approved by the adviser.

## Liberal Studies Concentration

### Requirements (20 units)

Liberal Studies majors with a concentration in sociology must complete 20 units of sociology courses including 15 units of upper-division courses; three of these courses must be selected from the following: SOCL 3150, The Family; SOCL 3240, Social Deviance; SOCL 4730, Alcohol and Alcoholism; SOCL 4750, Sociology of Drug Use; SOCL 4920, Nutrition and Behavior; and SOCL 4800, Formal Organizations and Modern Society.

### Teaching Credentials

Majors in sociology interested in a social sciences waiver for a single subject credential should review the social sciences waiver described in the "Social Sciences" section of this catalog. Please refer to the "School of Education, Teacher Education" section of the catalog for a description of other requirements to be completed for the single subject credential.

### Course Descriptions

#### *Lower Division*

**SOCL 1010 Introduction to Sociology (3 units).** Basic concepts and perspectives in sociological analysis. Prerequisite to other sociology courses. (CAN SOC 2) (Fall, Spring)

**SOCL 2000 Intergenerational Experiences and Life Course Developments (2 units).** Provide students with the background for understanding life span development of the "self" and "others" as integrated social, psychological, and physiological beings. Specifically, focuses on cross-generational experiences encompassing post-adolescence, young adulthood, middle age, and the latter part of the life cycle. Attention will be given to special demographics, socialization patterns, role changes, interaction patterns, stereotypes, environmental influences, and critical life events. (Fall, Spring)

**SOCL 2010 Sociology of Sexual Behavior (3 units).** This course examines a variety of approaches to understanding sexual behavior. Typical patterns of sexual interactions will be contrasted with deviant sex styles. The course will present a wide range of conflicting viewpoints on some of the most controversial issues today including abortion, sex education, and AIDS. (Same as WMST 2010) Prerequisite: SOCL 1010. (Fall)

#### *Upper Division*

**SOCL 3000 Classical Theory (4 units).** The emergence of sociology from social philosophy and the historical development of sociological thought. Prerequisite: SOCL 1010 or consent of instructor. (Fall)

**SOCL 3030 Research Methods (4 units).** Introduction to research design and methodology in sociology: theory, implications of theoretical framework, hypothesis formation, conceptualization and measurement of sociological variables, research process, research designs, methods of data collection, sampling procedures, and written report. Prerequisite: SOCL 1010 or equivalent. (Fall)

**SOCL 3120 Criminology (3 units).** Analysis of the types and incidence of crime in America in contrast with other cultures. Comparison of the various sociological, psychological and biological causes of crime. (Formerly 4121) Prerequisite: SOCL 1010 or consent of instructor. (Fall)

**SOCL 3130 Juvenile Delinquency (3 units).** Covers the historical development of the juvenile justice system including courts, delinquency treatment, and social policies toward delinquency. Analysis of types and incidence of delinquency, as well as the major sociological forces which are linked to delinquency, i.e., family problems, poverty, racism, unemployment, school failure, juvenile gangs, and health problems. (Formerly 4122) Prerequisite: SOCL 1010 or consent of instructor. (Spring)

**SOCL 3150 The Family (3 units).** Social structure and changing functions of the modern family. Relationship of family to other social institutions. Family roles and interaction. Prerequisite: SOCL 1010 or consent of instructor.

**SOCL 3160 Sociology of Youth (3 units).** Sociological analysis of the development of self and the socialization of the child and youth in sex and age roles. Prerequisite: SOCL 1010.

**SOCL 3170 Sociology of Sex Roles (3 units).** Primarily analyzes the differences in women's and men's roles in the U.S. today. Major issues addressed include sex role socialization, the media's portrayal of sex roles, differences in gender roles in the workplace, and interpersonal dynamics involved in friendships between members of the opposite sex. The course will also trace historical and contemporary developments in women's and men's liberation movements. Prerequisite: SOCL 1010 or consent of instructor. (Spring)

**SOCL 3200 Social Changes (3 units).** Sociology and social change, types and problems of change, factors in rate and direction of change, classic and modern theoretical analysis of social change. Prerequisite: SOCL 1010 or consent of instructor.

**SOCL 3240 Social Deviance (3 units).** The study of social behaviors which differ from the norm or expected behavior. Focus is on the reaction of segments of society to these behaviors; i.e., the process by which some behavior is ignored, other behavior generates social sanctions, and certain behaviors are criminal. Review of the social benefits and function of deviance, as well as the conflict between those social forces who disagree on the proper response to deviant behavior. (Formerly 4240) Prerequisite: SOCL 1010 or consent of instructor.

**SOCL 3250 Social Issues in Cross-Cultural Perspective (3 units).** Focus on major issues relevant to at least two cultures chosen for in-depth study. The main issues addressed will include poverty, pollution, and educational equality. Other topics that students may choose to study involve children's socialization patterns, health or sexual practices, and the use and impact of the mass media in at least two cultures. The course will feature field experiences to give students experimental knowledge. (Winter)

**SOCL 3310 Social Stratification (3 units).** Origins, characteristics, and functions of social castes and classes; emphasis on recent research and theoretical developments. Prerequisite: SOCL 1010 or consent of instructor.

**SOCL 3400 Contemporary Theory (4 units).** Major contributions to systematic sociological theory. Critical analysis of selected works from Comte, Pareto, Weber, Durkheim, Sorokin, Parsons, and other classical and contemporary sociologists. Prerequisite: SOCL 3000 or consent of instructor. (Spring)

**SOCL 3430 Population, Resources, and the American Future (3 units).** Is population a problem in contemporary America? An examination of the effects of rapid population growth and its relationship to the rapid depletion of renewable and nonrenewable resources both now and in the future. Prerequisite: SOCL 1010 or consent of instructor.

**SOCL 3530 Self and Social Behavior (4 units).** This course examines the social underpinnings which contribute to the development of the self. The course is a seminar and an activity in which students keep a journal, engage in self observations and reflections, and make observations of others (especially significant others). As a seminar, students will be expected to exchange and examine ideas about the self from a theoretical as well as an experiential framework.

**SOCL 3600 Sex Roles and Power (4 units).** This course will examine the relationships between men and women, and the uses of specific sex-role behavior as a manipulation device in the "Battle of the Sexes". Comparative and descriptive films will be used to demonstrate sexual conflict and cooperation. Pre-film and post-film lectures and discussions will evaluate the illustrative material.

**SOCL 3630 Tenderloin Lifestyles (4 units).** This course allows students to observe and apply directly the concepts of social deviance by staying for a week in San Francisco's Tenderloin, or vice, area. Class sessions will consist of a review of these concepts and preparation for the field study. (Winter)

**SOCL 3900 Sociological Colloquium (1-2 units).** Depending on the instructor, the colloquium will focus on specific areas of sociological concern, including an analysis of deviance, stratification, race, sex roles, population, religion, etc. May be repeated for a maximum of 4 units.

**SOCL 4010 Race and Ethnic Relations (3 units).** Sociological analysis of minority group relations; attention to specific racial, ethnic, and religious minorities. Prerequisites: SOCL 1010 or consent of instructor.

**SOCL 4020 Sociology of Small Group Dynamics (3 units).** Structure and processes of small human groups, theory, research methods, and empirical findings. Prerequisite: SOCL 1010 or consent of instructor.

**SOCL 4030 Research Analysis (4 units).** Social measurement, data analysis and interpretation, formulation of research designs, and application of research techniques. Includes understanding and performing basic research. Prerequisite: SOCL 3030. (Spring)

**SOCL 4170 Victimology (3 units).** Analysis of historical and contemporary theories and research on victims, victim compensation programs, spouse and child abuse programs, and community responses to crime. Prerequisite: SOCL 1010 or consent of instructor. (Spring)

**SOCL 4180 Organized and White Collar Crime (3 units).** Analysis of the historical and current bases of organized crime and white collar crime; the extent and types,

social and economic costs; the relationship between the social class structure and both white collar and organized crime; and the enforcement of laws pertaining to these illegal activities. Prerequisite: SOCL 1010 or consent of instructor. (Spring)

**SOCL 4190 *Treatment of the Offender (3 units)***. Examination of counseling theories such as behavior modification, contingency contracting, transactual analysis, psychoanalysis, labeling theory, and humanistic psychology as they apply to community-based and institutional programs. Also reviews the content and structure of specific techniques which have been successful in reducing crime such as family intervention; drug, nutrition, and alcohol counseling; and job skill programs. Prerequisite: SOCL 1010 or consent of instructor. (Spring)

**SOCL 4200 *Pornography and Human Sexuality (3 units)***. What is pornography? What does pornography tell us about modern societies, the family, and the individual? Is it harmful? Is it necessary? How can it be controlled? What would a society without pornography be like? Selected readings and literary rendering will be the source of ideas, answers, and other questions. Prerequisite: SOCL 1010 or consent of instructor. (Fall, Spring)

**SOCL 4400 *Political Sociology (3 units)***. Sociological bases of political attitudes and behavior. Theory and research dealing with political socialization, voting behavior, legitimacy, and authority. Prerequisite: SOCL 1010 or consent of instructor.

**SOCL 4520 *Personality and Society (3 units)***. Relations between personality, social structure, and culture. Primary emphasis on roles, socialization, aggression, affiliation, leadership, and norms. Prerequisite: SOCL 1010 or consent of instructor. (Fall, Spring)

**SOCL 4700 *Medical Sociology (3 units)***. The social causes and consequences of illness in contemporary American society will be explored along with traditional and unique approaches to treating the sick. In addition, factors that prohibit equal access to medical care facilities will be examined. Prerequisite: SOCL 1010 or consent of instructor.

**SOCL 4710 *Sociology of Aging (3 units)***. Examination of the dynamics and processes of aging; social and psychological aspects of aging, including attitudes toward the aged. Sociological, social-psychological, and biological theories of the aging process will be explored; social programs for the elderly will be examined. Prerequisite: SOCL 1010 or consent of instructor. (Fall)

**SOCL 4720 *Sociology of Death (3 units)***. Social and institutional factors involved in death, death-related behaviors, attitudes toward death and institutional influences on the death process. Prerequisite: SOCL 1010 or consent of instructor. (Spring)

**SOCL 4730 *Alcohol and Alcoholism (3 units)***. An overview of alcoholism and alcohol abuse as a social, economic, and individual problem. Review of exploratory models, symptomatic behavioral indicators, and methods of intervention. Prerequisite: SOCL 1010 or consent of instructor. (Fall)

**SOCL 4740 *Sociology of Mental Health (3 units)***. Students will identify community-based programs for treatment and prevention of mental illness. They will develop knowledge and understanding of the importance of sociological variables in identifying mental health. Prerequisite: SOCL 1010 or consent of instructor. (Spring)

**SOCL 4750 Sociology of Drug Use (3 units).** This course will familiarize the student with the major sociological theories about drug use and the research investigating the theories' claims. Also, discussion of research on issues in the field of drugs such as the social control efforts and drugs, the effects on both legal and illegal drugs, and the typical users of the various drugs. (Fall)

**SOCL 4790 Social Welfare Services (3 units).** Historical development of welfare services; analysis of the structure, policies, and issues of public and private welfare services. Prerequisite: SOCL 1010 or consent of instructor. (Fall)

**SOCL 4800 Formal Organizations in Modern Society (3 units).** Analysis of modern bureaucratic organizations and their place in American society. Corporate deviance, organizational change, and contemporary bureaucratic influences on American society will be stressed. Past and present theories of bureaucratic organizations will be examined. Prerequisite: SOCL 1010 or equivalent or consent of instructor. (Fall)

**SOCL 4810 Urban Sociology (3 units).** The urban concept: origin and development of urban areas; effects of urbanization, social institutions, and social relations; research methods applied to urban life and form. Prerequisite: SOCL 1010 or consent of instructor.

**SOCL 4910 Cooperative Education (2–4 units).** Provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and department Co-op coordinator. May be repeated for a total of 8 units depending upon the department policy. Prerequisites: Sophomore standing; consent of departmental coordinator. (Fall, Winter, Spring)

**SOCL 4920 Nutrition and Behavior (4 units).** Examines the theories and evidence which show a relationship between diet and behavior. Various diet therapies will be discussed in terms of whether or not they work and why. The laboratory will include analysis of the student's eating patterns to determine actual nutrient consumption. Prerequisite: SOCL 1010 or consent of instructor. (Spring)

**SOCL 4940 Sociological Internship (3–6 units).** Supervised experience relevant to specific aspects of sociology. Intensive field placement in an appropriate agency or organization. Individual meetings and written reports. Each student will be placed in an agency for 10 hours (3 units) to 20 hours (6 units) per week. Prerequisites: SOCL 4800 and consent of instructor. (Fall, Spring)

**SOCL 4950 Selected Topics in Sociology (Topics to be specified in Class Schedule) (1–5 units).** Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

**SOCL 4960 Senior Seminar (4 units).** Research, review, and discussion of the contemporary issues facing sociology. Each student prepares an individual report. Prerequisite: Sociology major, senior status, or consent of instructor. (Spring)

**SOCL 4980 Individual Study (1–4 units).** For students capable of independent work at an advanced level. May be repeated up to 6 units. Prerequisite: Consent of instructor. (Fall, Winter, Spring)



### ***Postbaccalaureate***

***SOCL 5000 Seminar in Criminology (3 units)***. Advanced study of crime causation and criminal classification; specialized group and individual treatment approaches. Prerequisite: Graduate standing. (Fall, Spring)

***SOCL 5940 Field Work (1–4 units)***. Students will be placed in an agency or organization to perform work of a sociological nature. This course is designed to give graduate students a meaningful experience in an actual work situation. Interns will work under joint supervision of the University and agency. A journal or project, readings, and attendance at weekly meetings are required. May be repeated up to 6 units (exceptions granted by request to the Dean of Graduate Studies). Prerequisites: Graduate standing and consent of instructor. (Fall, Winter, Spring)

***SOCL 5950 Selected Topics in Sociology (Topics to be specified in Class Schedule) (1–5 units)***. Development of a selected topic in sociology. Topics vary each term, thus different topics may be taken for credit. Prerequisites: Graduate standing and consent of instructor. (Fall, Winter, Spring)

***SOCL 5960 Graduate Project (3–6 units)***. Alternative to a thesis. In some cases a graduate project may be more relevant to the student's field than the graduate thesis. Prerequisites: Departmental approval and consent of graduate adviser. (Fall, Winter, Spring)

***SOCL 5980 Individual Study (1–4 units)***. For students capable of independent study in sociology. Topics and supervising instructors may vary. May be repeated for a total of six units. Available for postbaccalaureate credit only. Prerequisite: B.A. in sociology or other social science. (Fall, Winter, Spring)

***SOCL 5990 Thesis (3–6 units)***. Thesis research. Prerequisites: Graduate standing and consent of instructor. (Fall, Winter, Spring)



## Women's Studies

### Minor/Concentration within the Liberal Studies Major

**Office:** Classroom Building 240B, (209) 667-3347  
**Chair:** Richard L. Luevano  
**Faculty:** Gisela Dardon, Judith J. Hendricks, Susan  
 Middleton-Keirn

The women's studies minor examines women's roles in modern society. The core courses focus exclusively and directly on the experiences, concerns, and accomplishments of women. Electives may be selected from a variety of courses which examine sex roles within the context of other topics. These courses provide supporting background and assist the student in integrating the interdisciplinary minor with career goals.

This program is designed: (1) to provide support and assistance to students who wish to specialize in women's issues and (2) to provide a coherent academic program in women's studies which is well integrated with other disciplines and departments.

## The Minor

### Requirements (18 units)

1. Complete the required core courses WMST 3000, Women's Studies Colloquium, 3 units and WMST 2020, Introduction to Women's Studies, 3 units.
2. Select nine units of other core courses listed below:
 

WMST 2500	Women's Development and Lifestyle Choices, 3 units
WMST 3550	Society and Gender, 3 units
WMST/HIST 3680	Women in American History, 3 units
WMST/ANTH 3900	Women: A Cross Cultural View, 3 units
WMST/ETHS 4020	The Black Woman: Soul Sister, 4 units
WMST/PSCI 4305	Changing Sex Roles in Organizations, 3 units
WMST/ENGL 4510	Women Authors, 3 units
3. Select 3 units of electives as listed below. Courses listed in the core but not used as part of the nine-unit requirement may also be selected as electives. Many additional courses may be approved for elective credit by the Women's Studies Chair if taken in conjunction with one unit of Independent Study. The additional unit of study must be directed towards exploring the implications of the course material for understanding sex roles and women's issues.
 

WMST 4311	Women in American Law, 3 units
WMST/ETHS 4000	Mexican American Family, 3 units
WMST/ETHS 4010	The Black American Family, 3 units
WMST/ETHS 4350	Multiculturalism: From Bias to Reality, 3 units
WMST/ETHS 4510	Women Authors, 3 units
WMST/PHED 3750	Women in Sports, 3 units
WMST/PSCI 3700	Ethnic and Gender Politics, 4 units
WMST/PSYC 3660	Psychology of Women, 3 units

- WMST/SOCL 2010 Sociology of Sexual Behavior, 3 units  
WMST/SPCH 3100 Advanced Interpersonal Communication, 3 units

*Note: Other applicable courses are offered from time to time. These substitutions will be approved by the Chair of the Ethnic and Women's Studies Department.*

## Liberal Studies Concentration

### Requirements (21 units minimum)

1. Complete the following required Core Courses (12 units):
  - WMST 2020 Introduction to Women's Studies, 3 units
  - WMST 3000 Women's Studies Colloquium, 3 units
  - WMST/PSYC 3660 Psychology of Women, 3 units
  - WMST/ENGL 4510 Women Authors, 3 units
2. Select a minimum of 9 units of elective courses from the list below:
  - WMST/SPCH 3100 Advanced Interpersonal Communication, 3 units
  - WMST/HIST 3680 Women in American History, 3 units
  - WMST/ANTH 3900 Women: A Cross Cultural View, 3 units
  - WMST/ETHS 4020 The Black Woman: Soul Sister, 4 units
  - WMST/PSCI 4305 Changing Sex Roles in Organizations, 3 units
  - WMST 4311 Women in American Law, 3 units
  - WMST 4980 Individual Study, 1-4 units

*Note: Other applicable courses are offered from time to time, especially during Winter Term. Contact the Chair of Women's Studies for information.*

## Course Descriptions

### Lower Division

**WMST 2010 Sociology of Sexual Behavior (3 units).** The course examines a variety of approaches to understanding sexual behavior. Typical patterns of sexual interactions will be contrasted with deviant sex styles. The course will present a wide range of conflicting viewpoints on some of the most controversial issues today including abortion, sex education, and AIDS. (Same as SOCL 2010) Prerequisite: SOCL 1010.

**WMST 2020 Introduction to Women's Studies (3 units).** An introduction to the political, literary and critical history of feminist thinking and women's rights. The course will seek to put the concerns and contributions of the women's movement—from the nineteenth century through the twentieth—into a perspective that has value and meaning for today's student of women's studies. (Fall)

**WMST 2500 Women's Development and Lifestyle Choices (3 units).** The course examines female development and experiences, psychology, and current choices. The latter would include comparative analysis of development from a woman's perspective. Special attention will be given to the feminine experience in decision making, career advancement, and balancing the various components of one's life. (Fall)

## *Upper Division*

**WMST 3000 *Women's Studies Colloquium (3 units)*.** An in-depth examination of current issues contemporary women face. Students will hear selected topics presented by our guest lecturers who have first-hand knowledge of the issues being addressed. Textbook readings and selected journal articles provide a framework for discussions. (Formerly MDIS 4000) (Spring)

**WMST 3100 *Advanced Interpersonal Communication (3 units)*.** Structure and communication processes in two-person relationships. A review of the history, current theories and research findings in such areas as interpersonal attraction, mate selection, compatibility, power, love, sex roles, conflict, and divorce. Alternative forms of close relationships are analyzed, including friendship, cohabitation, and homosexual relations. (Same as SPCH 3100) Prerequisite: Junior standing or consent of the instructor. (Fall, Spring)

**WMST 3550 *Society and Gender (3 units)*.** This course is designed to analyze the social construction of gender. We will explore the various social institutions and practices that encourage the existing conceptions of masculinity and femininity. Early childhood socialization, practices of parenting, the educational institution, family structures, economic and work structures, the legal institution, violence against women, and intimate relationship practices will be analyzed in terms of their contribution to the social construction of gender. (Spring)

**WMST 3660 *Psychology of Women (3 units)*.** This course provides a psychological examination of the nature and experiences of women in contemporary society. Topics to be discussed include women and power, the meaning of sexuality, stress and conflict surrounding women's roles, and male-female relationships. (Same as PSYC 3660) (Fall, even years)

**WMST 3680 *Women in American History (3 units)*.** American history with reference to female experiences, value systems, and ethnic diversity from the Colonial period to the present. Includes discussion of various theoretical approaches. (Same as HIST 3680) Prerequisite: Sophomore standing or consent of instructor.

**WMST 3700 *Ethnic and Gender Politics (4 units)*.** This course will focus on the politics of ethnicity and gender. It will begin with a consideration of the Euro-patriarchal ideology underlying social relations in capitalist societies, investigate the impact on the relations on peoples experiencing colonization (Native Americans, Afro-Americans, Mexican-Americans, Asian-Americans, other "third world" peoples, and women everywhere) and discrimination because of sexual preferences, and conclude with critical perspectives arising out of contemporary liberation movements. This course satisfies the upper division writing proficiency requirement. (Same as PSCI 3700)

**WMST 3750 *Women in Sport (3 units)*.** Introduction to the female's role within the American sport experience. Historical and socio-cultural perspectives which have influenced the involvement of women in a traditionally male sports world will be emphasized. (Same as PHED 3750)

**WMST 3900 *Women: A Cross-Cultural Perspective (3 units)*.** Comparative study of traditional and changing roles of women in a wide range of contemporary cultures. (Same as ANTH 3900). Satisfies upper division writing proficiency requirement. Prerequisite: ANTH 2060 or consent of instructor.

**WMST 4000 *The Mexican American Family (3 units)*.** Basic sociological structure and functions of the family as a social institution. Application of role theory to the Chicano family as a unit of interacting personalities. Courtship, marriage, and child-rearing practices, etc. The relationship of the Chicano family with other institutional factors of the society. Stress is placed on the changing sex roles for the Chicano family members. (Same as ETHS 4000) Prerequisite: ETHS 2100. (Fall)

**WMST 4010 *The Black American Family (3 units)*.** A social psychological approach to studying the Black family as a basic social unit. A variety of perspectives are used to describe and explain how family members function in terms of courtship, marriage, child rearing practices, etc. The family's relationship with other institutions in the wider society also is considered. (Same as ETHS 4010) (Fall, Spring)

**WMST 4020 *The Black Woman: Soul Sister (4 units)*.** A review of popular notions about the identity of the black woman in the United States. Stereotypes will be contrasted with examples of her position, role, and status in past and present society. Explanations or systematic accounts regarding the black woman's behavior will be offered from a social psychological perspective. (Same as ETHS 4020) (Winter)

**WMST 4303 *Women's Spirituality: Application (1 unit)*.** This course involves student application of the conceptual material presented in WMST 4304 to a creative project of the student's own research and design. The project is to be presented to the class. To be taken with WMST 4304.

**WMST 4304 *Women's Spirituality: A Theological View (3 units)*.** This course examines theology, the thematic treatment of women, and reconstructs major themes from a woman-created approach. It contrasts contemporary trends in women's spirituality with the liturgical tradition. (Activity and discussion format)

**WMST 4305 *Changing Sex Roles in Organizations (3 units)*.** This course deals with changes in the work environment resulting from the influx and upward mobility of women into professional positions. It will address the dynamics of the change for both men and women. Specific topics include changing demographics, cultural taboos, problems and the legal climate. (Same as PSCI 4305) (Summer)

**WMST 4311 *Women in American Law (3 units)*.** This course is designed to examine American law, focusing upon significant, recent, and current cases and opinion which act to discriminate between the rights, duties, and obligations of men and women on the basis of gender.

**WMST 4350 *Multiculturalism: From Bias to Reality (3 units)*.** An examination of progressive change from the conventional majoritarian bias to self-awareness, self-identity and self-esteem, i.e. the changing consciousness of systematically disadvantaged

groups in the United States. Utilizing the theoretical framework of Anthony Wallace, the self-articulation of African-Americans, Chicanos, Latin-Americans, Asian-Americans and women are reviewed. Integrating concepts are used to identify the operative dynamic of exclusion and to articulate an ideal of multiculturalism and diversity. Prerequisite: Upper-division standing. (Same as ETHS 4350)

**WMST 4510 *Women Authors (3 units)***. Readings in prose and poetry by women authors selected to highlight the tradition of female writings: significant themes, techniques, circumstances and authors from the seventeenth century to the twentieth. At the instructor's discretion, course may be limited to one national literature, British or American, or encompass world authors.

**WMST 4910 *Cooperative Education (2-4 units)***. This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisites: Sophomore standing; consent of departmental coordinator and Co-op Education Office.

**WMST 4950 *Selected Topics in Women's Studies (Topics to be specified in the Schedule of Classes) (1-5 units)***. Development of a particular branch of women's studies. Topics will vary each term. Different topics may be taken for credit.

**WMST 4980 *Individual Study (1-4 units)***. For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor.

**WMST 5980 *Individual Study (1-4 units)***. For post-baccalaureate students in Women's Studies who seek advanced and specialized study. Prerequisite: Consent of instructor and approval of graduate adviser.



# School of Business Administration

Office ..... Library Building 115, (209) 667-3287

Interim Dean ..... U. Rao Cherukuri

## Departments & Chairs:

Accounting ..... Don E. Garner  
 Computer Information Systems ..... Ron W. Lodewyck  
 Finance ..... Daniel R. Vellenga  
 Management ..... Ronald W. Lundquist  
 Marketing ..... Rhonda W. Mack  
 Production and Operations Management ..... Nael A. Aly

## Directors:

Graduate Programs ..... Al S. Khade  
 Center for Management  
 Development and Research ..... Gene Murti

The School of Business Administration offers the following degrees:

- Bachelor of Science in Business Administration
- Bachelor of Science in Computer Information Systems
- Master of Business Administration
- Master of Science in Business Administration, Management

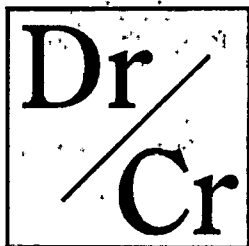
Courses in the Bachelor of Science programs are offered both during the day and in the evening. In addition to course offerings on the campus in Turlock, the School regularly schedules upper-division and graduate courses in the evening at Stockton.

The Mission of the School of Business Administration is to serve the educational needs of our students by providing quality educational programs in Business Administration with special emphasis on leadership and an appreciation for diversity. To this end, we hold excellence in teaching to be of paramount value. We believe that a responsive teaching and learning environment is enriched by freedom of expression, scholarly work, and interaction with the business community. The students served are drawn primarily from the six-county service region of the University.

In fulfilling our mission, we provide each student with an opportunity to acquire:

- A quality education in the functional areas of business, communication, computers, and information systems within an ethical framework and a global perspective.
- A solid foundation in general education to broaden perspective and enhance the quality of personal and professional well being through life-long learning.
- The ability to lead and to function as a team player in an increasingly diverse work place.
- The ability to attain results through leadership by focusing on goal setting, quality and productivity, effective communication, and the ability to work cooperatively with other people within a framework of social responsibility and concern for the individual.
- An appreciation for demographic diversity and issues associated with differences and the ability to interact effectively with persons from diverse backgrounds.





## Accounting

**Office:** Library Building 115, (209) 667-3671  
**Chair:** Don E. Garner  
**Faculty:** Annhenrie Campbell, Don E. Garner, David O. Jenkins, David H. Lindsay, Robert Van Regenmorter

### Accounting Concentration

Accounting is a systematic way of analyzing and describing the activities of a business or other economic entity primarily in monetary terms. Its purpose is to provide useful information to managers, owners, investors, creditors, regulatory agencies, and others concerned about such information. Accounting involves analyzing and recording transactions and other events, combining recorded data in useful ways, and reporting results to those concerned. It also involves the art of analyzing and interpreting financial statements and other information provided by the accounting process.

Possible careers in accounting include:

*Public Accounting*—tax planning and compliance; management advisory services; auditing; and personal financial planning.

*Industrial Accounting*—controllorship; cost accounting; and internal auditing.

*Governmental Accounting*—federal and state income tax agencies; boards of equalization; and audit agencies.

### Requirements

1. Complete University requirements for the Bachelor of Science degree (51 units minimum).
2. Complete the prerequisites to the business administration major.
3. Complete the business administration core.
4. Complete the concentration.

### The Concentration (24 units)

*Note:* All courses in the Accounting concentration must be completed with a C (2.0) or better average.

1. Required courses, each of which must be completed with a grade of C or better:
  - ACC 3110 Intermediate Accounting-I, 4 units
  - ACC 3120 Intermediate Account II, 4 units
  - ACC 3140 Cost Accounting, 4 units
2. Complete at least three elective courses from the following (12 units):
  - ACC 4110 Advanced Accounting, 4 units
  - ACC 4120 Auditing, 4 units
  - ACC 4140 Income Tax Accounting, 4 units
  - ACC 4160 Computers in Accounting, 4 units

### Preparation for the Uniform Certified Public Accountant Examination

Students preparing for the CPA Examination should take ACC 4110, 4120, 4140, and BLW 3060.

## Course Descriptions

### *Lower-Division*

**ACC 2110 Financial Accounting (3 units).** Introduction to financial statements of business entities. Underlying principles and procedures. Measurement of periodic income and financial position. Prerequisite: Sophomore standing. (CAN BUS 2) (Fall, Spring)

**ACC 2130 Managerial Accounting (3 units).** The analysis, use, interpretation, and synthesis of accounting and financial data for and by management for planning, control, and decision making purposes. Prerequisites: ACC 2110. (CAN BUS 4) (Fall, Spring)

**ACC 2950 Selected Topics in Accounting (Topics to be specified in Class Schedule) (1-4 units).** Development of a selected topic in accounting. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

### *Upper Division*

**ACC 3005 Personal Financial Planning (3 units).** A study of basic personal financial planning principles in order to provide the students with a framework for making sensible decisions in the management of their personal financial resources. The course covers material important for making rational consumption and investment decisions. The importance of tax, retirement, and estate planning practices and principles in wealth accumulation and transfers is emphasized. Not acceptable for concentration requirements. Prerequisite: Junior standing. (Winter)

**ACC 3110 Intermediate Accounting I (4 units).** Accounting for financial position and results of operations, cash, receivables, inventories, property, plant and equipment; other non-current assets, and current liabilities. Prerequisite: ACC 2110 or 5070. (Fall, Spring)

**ACC 3120 Intermediate Accounting II (4 units).** Accounting for bonds, other non-current liabilities, investments, stockholders' equity, earnings per share, pensions, leases, accounting changes, error correction, changes in financial position, price level changes, and other financial statement analysis. Prerequisite: ACC 3110 or consent of instructor. (Fall, Spring)

**ACC 3140 Cost Accounting (4 units).** Theory and practice of cost accounting, including costing manufactured products, planning and control of operations, budgeting, standards, and relevant quantitative techniques. Prerequisites: ACC 2130 or 5110; MATH 1500, 1610. Co-requisite: CIS 3780. (Fall, Spring)

**ACC 4110 Advanced Accounting (4 units).** Accounting for business combinations, investments in subsidiaries, consolidated financial statements, foreign operations, industry segments, financially distressed companies, partnerships, governmental units, and other non-profit entities. Prerequisite: ACC 3120 or consent of instructor. (Fall, Spring)

**ACC 4120 Auditing (4 units).** Standards and procedures broadly applied to examination of financial statements, including a consideration of the field of public accounting, professional ethics, internal controls, preparation of working papers, and audit reports. Prerequisite: ACC 3120. Co-requisite: CIS 3780. (Fall, Spring)

**ACC 4140 Income Tax Accounting (4 units).** Rules and procedures for determining federal income tax liability of individuals and businesses, including corporations and partnerships; underlying rationale; advance planning to minimize tax impact. Prerequisite: ACC 2110. (Fall, Spring)

**ACC 4160 Computers in Accounting (4 units).** A study of the uses of computers in accounting. Topics include the software available to perform financial and managerial tasks, accounting system design, and the internal control problems associated with computerized systems. The course will include extensive individual work using personal computers and commercial accounting software. Prerequisites: ACC 2130, 3110. Co-requisite: CIS 3780. (Spring)

**ACC 4910 Cooperative Education in Accounting (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment in Accounting. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental approval. Prerequisites: Sophomore standing and consent of departmental coordinator prior to registration.

**ACC 4940 Internship (3 units).** Supervised field experience in a selected area of accounting. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

**ACC 4950 Selected Topics in Accounting (Topics to be specified in Class Schedule) (1–4 units).** Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**ACC 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of department chair prior to registration.

## **Graduate**

**ACC 5070 Principles of Accounting (3 units).** The principles, concepts, and conventions employed in measuring business transactions and analyzing, interpreting, and reporting results to management and other users of financial information.

**ACC 5110 Management Accounting (3 units).** The application of managerial accounting techniques and procedures to the solution of managerial problems in all functional areas of business. Prerequisite: ACC 5070.

**ACC 5145 Business and Investment Tax Planning (3 units).** A study of the tax factors related to business and investment decisions. The emphasis is on the role of tax planning in maximizing after-tax return. Prerequisite: ACC 5110 or equivalent.

**ACC 5940 Internship (3 units).** Supervised field experience in a selected area of accounting. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

**ACC 5950 Selected Topics in Accounting (Topics to be specified in Class Schedule) (1–4 units).** Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**ACC 5960 Graduate Project (3 units).** A terminal graduate project to be taken by students who have completed their course requirements. The project proposal must be approved by the project adviser(s). Prerequisite: Students must have completed all course requirements.

**ACC 5980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of department chair prior to registration.

**ACC 5990 Graduate Thesis (3 units).** This enrollment involves individual consultation in the preparation of a master's thesis. May be repeated for a total of 6 units. Prerequisite: Completion of course work.

### ***Business Law: Lower Division***

**BLW 2060 Law, Environment and Ethics (3 units).** Law applicable to businesses; legal, ethical, political, and social environments in which businesses operate; sources of law; legal reasoning and procedure; law of contracts, agency. (Fall, Spring)

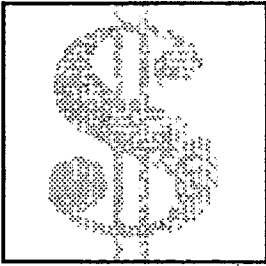
### ***Business Law: Upper Division***

**BLW 3060 Advanced Business Law (3 units).** Laws relating to sales, commercial paper, secured transactions, debtor–creditor rights, bankruptcy, agency, employment, partnerships, corporations, real and personal property including protection of interests. Prerequisite: BLW 2060 or 5090. (Spring)

### ***Business Law: Graduate***

**BLW 5090 Business Law, Environment and Ethics (3 units).** Examination of problems and issues involving the interaction and adaptation of business and its legal, political, ethical, and social environment. The course is developed around a series of current problems chosen to raise some major issues.

**BLW 5190 International Legal Environment of Business (3 units).** The impact of different legal environments on international business operations; civil versus common law, international taxation issues; legal safeguards for intellectual property rights; legal restrictions governing the transfer of funds, foreign investment laws, antitrust laws. Prerequisites: All MBA Foundation courses.



## Finance

**Office:** Library Building 115, (209) 667-3671  
**Chair:** Daniel R. Vellenga  
**Faculty:** U. Rao Cherukuri, Daniel R. Vellenga

### Finance Concentration

Business finance is the three-fold function of determining funds requirements, evaluating and selecting alternate sources of funds, and managing available funds in order to achieve specified objectives.

Professional careers in finance are to be found in the financial administration of industrial, commercial, utility, and government enterprises as well as in financial institutions such as commercial banks, savings and loan associations, insurance companies, investment companies, stock brokerage houses and investment banks.

### Requirements

1. Complete University requirements for the Bachelor of Science degree (51 units minimum).
2. Complete the prerequisites to the business administration degree.
3. Complete the business administration core.
4. Complete the concentration.

### The Concentration (12 units)

1. Complete a total of 12 units from the following:
  - FIN 4210 Security Analysis and Portfolio Management, 3 units
  - FIN 4240 Management of Financial Institutions, 3 units
  - FIN 4310 Real Estate Finance and Investment, 3 units
  - FIN 4320 Seminar in Risk and Insurance, 3 units
  - FIN 4330 International Finance, 3 units
  - FIN 4340 Financial Markets, 3 units
  - FIN 4350 Seminar in Finance, 3 units
  - FIN 4820 Seminar in Financial Management, 3 units

**Note:** All courses in the Finance concentration must be completed with a letter grade of "C" (2.0) or better.

### Upper Division

**FIN 3210 Investment Management (3 units).** The purpose of this course is to introduce the student to both the traditional and the modern theories of investment in a manner that is easy to understand and enjoyable to study. Not acceptable for concentration requirements. Prerequisite: MATH 1600 or 1610. (Fall)

**FIN 3220 Business Finance (3 units).** Risk and rates of return, valuation of securities, financial statement analysis, financial planning, determination of funds requirements, capital structure and cost of capital, analysis of investment opportunities. Prerequisites: ACC 2130 or 3140; MATH 1610. (Fall, Winter, Spring)

**FIN 4210 Security Analysis and Portfolio Management (3 units).** A basic treatment of the problems of security analysis (with special attention to determination of security values and investment timing) and of portfolio selection and management with special attention to the investment problems of the individual investor. Prerequisite: FIN 3220. (Spring)

**FIN 4240 Management of Financial Institutions (3 units).** Analysis of various types of financial institutions both bank and non-bank; emphasis on supply of funds, and differentiating functions and practices; interrelationships of financial intermediation and business firms. Prerequisite: FIN 3220 or ECON 3320. (Spring)

**FIN 4310 Real Estate Finance and Investment (3 units).** An analysis of the risks, practices, and problems involved in financing and investing in real property. Prerequisite: FIN 3220. (Fall)

**FIN 4320 Seminar in Risk and Insurance (3 units).** A study of the concept of risk and its implications in decision making. A survey of life, health, accident, property, and casualty insurance. Prerequisite: FIN 3220.

**FIN 4330 International Finance (3 units).** This course examines the functioning of the international monetary system and the international financial arrangements as well as the financial problems of firms operating internationally. Prerequisite: FIN 3220. (Fall)

**FIN 4340 Financial Markets (3 units).** This course is designed to focus on a study of the financial system. It includes the following topics: Money and capital markets, role of financial institutions, flow of funds analysis, interest rate structures. Prerequisite: FIN 3220.

**FIN 4350 Seminar in Finance (3 units).** A study and discussion of selected topics in financial management, financial theory and financial research. Topics may vary from term to term. Students will be required to write a research paper and to give oral presentations on various journal articles. Prerequisites: FIN 3220 and 4820.

**FIN 4820 Seminar in Financial Management (3 units).** This course is designed to focus on the analysis of financial policies and problems of non-financial firms. An extension of FIN 3220, it is intended to develop elements of the theory of business finance, to introduce the case study and/or simulation methods within the financial management context, and to access computer files (library programs and data banks) in financial analysis and decision making; heavy use of case problems in financial management. Prerequisites: FIN 3220 and POM 3000. (Fall)

**FIN 4910 Cooperative Education in Finance (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment in finance. Students are placed in private or public sector positions under the supervision of the employer and department Co-op coordinator. May be repeated for a total of 8 units depending upon departmental approval. Prerequisites: Sophomore standing and consent of departmental coordinator prior to registration.

**FIN 4940 Internship (3 units).** Supervised field experience in a selected area of finance. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

**FIN 4950 Selected Topics in Finance (Topics to be specified in Class Schedule) (1–4 units).** Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**FIN 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of department chair prior to registration.

### **Graduate**

**FIN 5020 Management of Financial Resources (3 units).** This course is intended to lay theoretical foundations of financial policy. Cases and problems provide application of theory to financial decisions involving cash flow management, capital structure, cost of capital, capital budgeting, dividend policy, etc., of enterprises operating for profit. Accessing of computer files (library programs and data banks) in financial analysis and decision making is introduced. Prerequisites: ACC 5070, POM 5020 or equivalents. (Fall, Spring)

**FIN 5210 Managerial Finance (3 units).** This course focuses attention on financial management of business enterprises and its relation to other functional areas of management and to general business policy. Extensive use of case problems and/or simulation exercises provides applications of theory to financial decisions involving cash flow management, capital structure planning, capital costs, capital budgeting, dividend policy, and valuation of enterprises operating for profit. Prerequisites: FIN 5020, ECON 5050 and ACC 5110 or equivalents. (Fall, Spring)

**FIN 5220 Security Analysis and Portfolio Management (3 units).** An advanced treatment of the analysis of securities and the theoretical and applied issues of portfolio management. Prerequisite: FIN 5020 or equivalent.

**FIN 5240 Management of Financial Institutions (3 units).** A detailed examination of the management of financial institutions. Topics: Financial statements of financial institutions, investment management, loan management, liability and deposit management, capital management. Prerequisite: FIN 5020 or equivalent.

**FIN 5310 Real Estate Finance and Investment (3 units).** An advanced treatment of financial analysis as applied to investment in real estate. Emphasis will be on appraisal theory, risk and return measurement. Prerequisite: FIN 5020 or equivalent.

**FIN 5320 Risk Management (3 units).** An analysis of the risk factor in corporate financial management and the uses of various types of insurance policies. Prerequisite: FIN 5020 or equivalent.

**FIN 5330 International Financial Management (3 units).** An analysis of 1) the international monetary and financial system, 2) the financial management issues of corporations operating internationally. Prerequisite: FIN 5020 or equivalent.

**FIN 5340 Financial Markets (3 units).** An analysis of the functioning and role of the financial markets. Topics: wholesale financial markets and retail financial markets, role of the institutions, supply–demand model of interest rates, flow of funds analysis. Prerequisite: FIN 5020 or equivalent.

**FIN 5350 Theory of Finance (3 units).** An investigation of the theoretical foundations of finance. The topics covered may vary from term to term. Prerequisite: FIN 5210.

**FIN 5940 Internship (3 units).** Supervised field experience in a selected area of finance. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

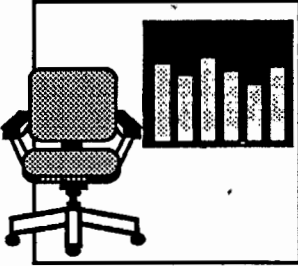
**FIN 5950 Selected Topics in Finance (Topics to be specified in Class Schedule) (1–4 units).** Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**FIN 5960 Graduate Project (3 units).** A terminal graduate project to be taken by students who have completed their course requirements. The project proposal must be approved by the project adviser(s). Prerequisite: Students must have completed all course requirements.

**FIN 5980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of department chair prior to registration.

**FIN 5990 Graduate Thesis (3 units).** This enrollment involves consultation in the preparation of a master's thesis. May be repeated for a total of 6 units. Prerequisite: Completion of course work.





## Management

**Office:** Library 115, (209) 667-3506

**Chair:** Ronald W. Lundquist

**Faculty:** Randall B. Brown, Majorie Chan, Tahi J. Gnepa, Ronald W. Lundquist, Andrew J. Papageorge (Emeritus)

Management offers a choice between two areas of concentration, Human Resource Management or Management.

### Requirements for the Concentration in Management or Human Resource Management

1. Complete University requirements for the Bachelor of Science degree (51 units minimum).
2. Complete the prerequisites to the business administration degree.
3. Complete the business administration core.
4. Complete the concentration.

### Management Concentration

The management concentration curriculum offers a variety of courses to prepare students for all types of managerial positions and perspectives. It provides an overview of management theory and practice which assumes a degree of universality and transferability with respect to management skills. Combined with the core courses and elective choices, it enables the student to obtain both a managerial perspective and a functional background suitable for entry level management positions in a variety of organizations.

#### Requirements (12 units)

1. Complete the following courses (6 units):
  - MGT 4000 Organization & Environment, 3 units
  - MGT 4360 Organizational Behavior, 3 units
2. Complete two of the following (6 units):
  - MGT 4340 Executive Leadership, 3 units
  - MGT 4540 Entrepreneurship & Venture Initiation, 3 units
  - MGT 4560 Seminar in Small Business Management, 3 units
  - MGT 4610 Seminar in Human Resource Management, 3 units
  - ECON 4331 Managerial Economics, 3 units

**Note:** All courses in the management concentration must be completed with a letter grade of "C" (2.0) or better.

### Human Resource Management Concentration

Human Resource Management is the process of obtaining and maintaining the human resources of an organization. It includes manpower planning, personnel recruitment, selection and placement, development, performance appraisal, compensation administration, and labor-management relations.

Professional careers in human resource management may be found with government agencies, hospitals, universities, and labor unions, as well as with private businesses.

### Requirements (12 units)

1. Complete the following courses (6 units):
  - MGT 4360 Organizational Behavior, 3 units
  - MGT 4610 Seminar in Human Resource Management, 3 units
2. Complete two of the following (6 units):
  - MGT 4000 Organization and Environment, 3 units
  - MGT 4620 Seminar in Labor Management Relations, 3 units
  - MGT 4640 Seminar in Manpower Development, 3 units
  - ECON 4100 Labor Economics, 3 units

*Note: All courses in the human resource management concentration must be completed with a letter grade of "C" (2.0) or better.*

### Upper Division

**MGT 3310 Management Theory and Practice (3 units).** Introduction to the concepts, issues, and practices of contemporary management. Theory, research, and real world contributions to management are all presented. Emphasis is on the basic functions of management and introduction to behavioral theories, research, and practices. Prerequisite: Junior standing. (Fall, Spring)

**MGT 3400 Seminar in International Business (3 units).** A comprehensive course covering the international environmental forces and their influence in all of the functional areas of the international firm—finance, management, marketing, personnel, production, and the multinational's ethical responsibility to the host countries. (Formerly 3020) Prerequisite: MGT 3310 (Fall, Spring)

**MGT 4000 Organization and Environment (3 units).** Examination of the complex relationships among environment, technology, and organizational design, structure, and performance. Attempts to provide an understanding of the organizational characteristics which enable firms to deal effectively with different environments. Prerequisite: Junior standing or consent of instructor. (Fall, Spring)

**MGT 4340 Executive Leadership (3 units).** A definitive study in the function of leadership in the management of business government and not-for-profit organizations, focusing on-top management. Prerequisite: Senior standing.

**MGT 4360 Organizational Behavior (3 units).** The study of individual and group behavior in organizations. Identification and application of behavioral science research methods and theories for the practicing manager. Motivation, interpersonal relations and communications, leadership, and managing change are some of the topics to be covered. Prerequisite: MGT 3310 or consent of instructor. (Fall, Spring)

**MGT 4540 Entrepreneurship and Venture Initiation (3 units).** Study of selected problems involved in starting and operating new business ventures. Prerequisites: Senior standing and consent of instructor. (Fall)

**MGT 4560 Seminar in Small Business Management (3 units).** Analysis of problems and issues frequently encountered in the management of a small business. Emphasizes the relevant differences in approach between small and large companies, particularly the challenge of managing with very limited resources. Extensive use of the technique of case problem analysis. Prerequisites: Senior standing and consent of instructor. (Spring)

**MGT 4610 Seminar in Human Resource Management (3 units).** Formulation and administration of policies designed to obtain and to maintain the human resources of the organization. Manpower planning, personnel selection and development, performance appraisal, compensation, evaluation of the personnel program. Prerequisite: MGT 3310 or consent of instructor. (Fall, Spring)

**MGT 4620 Seminar in Labor Management Relations (3 units).** Perspectives on the internal relationship between management and unionized employees. Prerequisite: MGT 4610. (Every other year)

**MGT 4900 Business Policy (3 units).** Consideration of the business enterprise as a total system in a total environment. Analysis and evaluation of the problems, opportunities, and ethical responsibilities which face the chief executive of a business firm. Emphasis will be on the formulation and implementation of various strategies. Extensive use of the technique of case problem analysis. Prerequisites: Completion of all other courses in the business administration core and satisfaction of CSU Stanislaus writing competency requirement. (Fall, Spring, Summer)

**MGT 4910 Cooperative Education in Management (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment in management. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental approval. Prerequisite: Sophomore standing; consent of departmental coordinator prior to registration.

**MGT 4940 Internship (3 units).** Supervised field experience in a selected area of management. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

**MGT 4950 Selected Topics in Management (Topics to be specified in Class Schedule) (1–4 units).** Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**MGT 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of department chair prior to registration.

## Graduate

**MGT 5050 The Administrative Process (3 units).** The nature of administration, its role, responsibilities, and functions; special attention will be paid to the student's ability to function within the administrative process using written and oral communication skills.

**MGT 5100 Organizational and Administrative Theory (3 units).** Examination of development and current emphasis in organization theory from scientific management to existentialism. Focuses on the use of theory. (Same as PADM 5100)

**MGT 5200 Seminar in Organizational Behavior (3 units).** Study of human behavior in complex organizations. An emphasis on behavioral science theories and research methods and their contributions to selected topics such as: motivation, innovation, managing change, interpersonal conflict and communications, power, leadership, and job-related stress. Prerequisite: MGT 5050 or equivalent.

**MGT 5310 Business Organization, Theory, and Behavior (3 units).** Advanced study of complex business organizations. Analysis of organization systems and managerial actions in terms of their influence on patterns of behavior. Prerequisite: MGT 5050 or consent of instructor.

**MGT 5350 Management of International Business (3 units).** This seminar focuses on selected specific problems involved in the management of a company which operates in more than one country. Emphasis may vary from term to term in accordance with the interests of the students involved.

**MGT 5480 Business Policy (3 units).** The formulation, implementation, and administration of corporate strategy. Study, through the technique of case problem analysis, of the pattern of goals and objectives as well as the ethical constraints which define a firm, and of the means of the execution of strategy in a specific situation. Prerequisite: Completion of all other Master of Business Administration core courses.

**MGT 5540 New Business Ventures (3 units).** Study of selected problems involved in starting and operating new business ventures. Prerequisites: MGT 5050, FIN 5020.

**MGT 5610 Human Resources (3 units).** Advanced study in selected areas within the human resources field. Among subjects to be included are: human relations and organizational development, current labor legislation on the federal and state level, Theory Z application, innovations in manpower planning and development, and possible solution to unemployment.

**MGT 5620 Collective Bargaining (3 units).** Advanced study of collective bargaining under the National Labor Relations Act and amendments. Students will participate in full-scale "mock" negotiations. Specific attention to be given to preparations, strategies, conflict resolution, and construction of language.

**MGT 5940 Internship (3 units).** Supervised field experience in a selected area of management. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

***MGT 5950 Selected Topics in Management (Topics to be specified in Class Schedule) (1–4 units)***. Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

***MGT 5960 Graduate Project (3 units)***. A terminal graduate project to be taken by students who have completed their course requirements. The project proposal must be approved by the project adviser(s). Prerequisite: Students must have completed all course requirements.

***MGT 5980 Individual Study (1–4 units)***. For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of department chair prior to registration.

***MGT 5990 Graduate Thesis (3 units)***. This enrollment involves consultation in the preparation of a master's thesis. May be repeated for a total of 6 units. Prerequisite: Completion of course work.



## Marketing

**Office:** Library 115, (209) 667-3506

**Chair:** Rhonda W. Mack

**Faculty:** Thomas P. Barrett, Rhonda W. Mack, Kaylene C. Williams

### Marketing Concentration

Marketing focuses on the relationship between the firm and the markets it serves. It includes measuring and interpreting market forces; cultivating market opportunities; developing products and/or services to match market opportunities; designing and managing market channels and physical distribution activities; pricing; advertising; sales promotion and public relations; and personal selling and sales management.

Professional careers in marketing are to be found in the marketing departments of industrial firms and merchandising firms. In addition, there is demand for marketing professionals in specialized organizations such as advertising agencies, marketing research agencies, and other service firms.

### Requirements

1. Complete University requirements for a Bachelor of Science degree (51 units minimum).
2. Complete the prerequisites to the business administration degree.
3. Complete the business administration core.
4. Complete the concentration.

### The Concentration (12 units)

1. Complete the following courses (9 units):
  - MKT 4400 Seminar in Consumer Behavior, 3 units
  - MKT 4420 Marketing Research, 3 units
  - MKT 4490 Seminar in Marketing Strategy, 3 units
2. Complete one of the following as approved by the major adviser (3 units):
  - MKT 4410 Seminar in Promotion Management, 3 units
  - MKT 4430 Seminar in Sales Management, 3 units
  - MKT 4431 Personal Selling, 3 units
  - MKT 4440 Industrial Marketing, 3 units
  - MKT 4450 Retailing, 3 units
  - MKT 4460 Advertising, 3 units
  - MKT 4470 International Marketing, 3 units

**Note:** All courses in the marketing concentration must be completed with a letter grade of "C" (2.0) or better.

### ***Upper Division***

***MKT 3410 Basic Marketing (3 units).*** Marketing process with emphasis on the management point of view. Consideration is given to the role played by marketing in the economy, dynamics of consumer motivation and behavior, and problems including ethical considerations confronted by the business firm in establishing an overall marketing program. Prerequisites: ACC 2110, 2130; ECON 2510.

***MKT 3420 Purchasing (3 units).*** A basic course in purchasing management. Principal topics considered are purchasing organization, systems and forms, functional analysis and standardization, quality, inventory and budgets, cost/price analysis, negotiation, make-or-buy, purchasing research and contracts, and legal considerations. Prerequisite: MKT 3410.

***MKT 4400 Seminar in Consumer Behavior (3 units).*** The consumer in the marketing process. Emphasis on the manner in which consumers approach decision making situations and the manner in which predisposition, group influence, and time affect the decision making process. Prerequisite: MKT 3410. (Spring)

***MKT 4410 Seminar in Promotion Management (3 units).*** Basic concepts and analytical tools of marketing communication from a managerial perspective. Emphasis on the design of promotional strategy including planning for advertising, personal selling, reseller support, publicity and sales promotion. Prerequisite: MKT 3410.

***MKT 4420 Marketing Research (3 units).*** Focus on the management of marketing information as a part of the decision making process. Emphasis on application of research concepts, methods of analysis, and knowledge of the behavioral and quantitative disciplines in establishing an overall marketing program. (Field trips) Prerequisites: MKT 3410 and POM 3000. (Fall)

***MKT 4430 Seminar in Sales Management (3 units).*** Planning, direction, and control of sales personnel and sales promotion activities. Sales management is approached as an integral element of the overall marketing program of a firm. Prerequisite: MKT 3410.

***MKT 4431 Personal Selling (3 units).*** The role of personal selling in the marketing of consumer and industrial products and services. Analysis of sales opportunities and techniques. Includes lectures, discussion, demonstrations, and practice in sales presentation. Prerequisite: MKT 3410.

***MKT 4440 Industrial Marketing (3 units).*** Analysis of the managerial activities in marketing of industrial goods. Coverage of market information, market planning, distribution methods, pricing strategies, and promotional problems in industrial marketing. Prerequisite: MKT 3410.

***MKT 4450 Retailing (3 units).*** Development of trends, organization, and geographic structure of retailing. Emphasis on management of location, layout, planning and budgeting, and control principles and policies of store operation; pricing, personnel, and customer services management. (Field trips) Prerequisite: MKT 3410.

**MKT 4460 Advertising (3 units).** Basics of developing advertising applications for products, services, and ideas being marketed. Emphasis on developing advertising objectives, strategy, and measuring performance. Copy and media decisions as well as advertising research are included. Prerequisite: MKT 3410.

**MKT 4470 International Marketing (3 units).** Examination of the international marketing environment including special consideration of economic, political, and social systems and their effects on marketing decision-making. Prerequisite: MKT 3410.

**MKT 4490 Seminar in Marketing Strategy (3 units).** Analysis of management decisions arising from the marketing tasks of the firm. Role of the marketing executive in use of research, the elements of marketing strategy; product, channels of distribution, promotion, price to arrive at policy decisions. Prerequisites: MKT 3410 and two other marketing courses or consent of instructor.

**MKT 4940 Internship (3 units).** Supervised field experience in a selected area of marketing. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

**MKT 4950 Selected Topics in Marketing (Topics to be specified in Class Schedule) (1-4 units).** Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**MKT 4980 Individual Study (1-4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor and approval of department chair prior to registration.

## **Graduate**

**MKT 5090 Marketing Fundamentals (3 units).** Analysis of management decisions arising from the marketing tasks of the firm. Role of the marketing executive in use of research. The elements of marketing strategy; product, channels of distribution, promotion, price, policy decisions.

**MKT 5410 Marketing Management (3 units).** Emphasis on managerial decision making, problem solving to formulate and administer effective marketing activities. Marketing as a total system designed to plan, price, distribute, and promote goods and services to users. Major emphasis on case method covering buyer behavior, product, channel of distribution, pricing, and promotion. Prerequisites: MKT 5090 and consent of instructor.

**MKT 5430 International Marketing (3 units).** Examination of the international marketing environment including special consideration of economic, political, and social systems and their effect on marketing decision making. Management of the export function, and Federal and State support of export activities are stressed. Simulation and cases. Prerequisite: MKT 5410

**MKT 5440 Physical Distribution (3 units).** Selected topics from the management of physical distribution systems and other logistical problems such as inventory control, warehouse location, etc. Prerequisite: MKT 5410.



**MKT 5450 Marketing Research (3 units).** Selected topics from market research design and methodology. Special in-depth emphasis of research aspects as related to market decision making, alternative data collection, and current developments in analysis techniques. Prerequisite: MKT 5410.

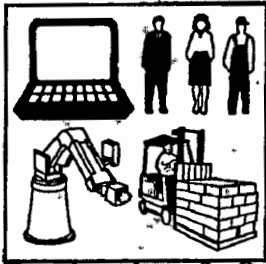
**MKT 5940 Internship (3 units).** Supervised field experience in a selected area of marketing. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

**MKT 5950 Selected Topics in Marketing (Topics to be specified in Class Schedule) (1-4 units).** Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**MKT 5960 Graduate Project (3 units).** A terminal graduate project to be taken by students who have completed their course requirements. The project proposal must be approved by the project adviser(s). Prerequisite: Students must have completed all course requirements.

**MKT 5980 Individual Study (1-4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of department chair prior to registration.

**MKT 5990 Graduate Thesis (3 units).** This enrollment involves consultation in the preparation of a master's thesis. May be repeated for a total of 6 units. Prerequisite: Completion of course work.



# Production and Operations Management

Office: Library 115, (209) 667-3568

Chair: Nael A. Aly

Faculty: Nael A. Aly, Al S. Khade, Gene Murti

## Production & Operations Management Concentration

Production and Operations Management (POM) is concerned with managing operations in manufacturing and service organizations. It involves the management of manpower, materials, facilities, and equipment for the efficient conversion of resources into quality products and services as well as their distribution.

POM managers apply their expertise and knowledge in the design, analysis, and planning of production systems. They utilize management science techniques and modern strategies to continuously improve the company's productivity and quality of its products and services.

Majoring in Production and Operations Management provides exciting, rewarding, and challenging career opportunities in a wide variety of organizations. The renewed emphasis on POM has reflected in an increase in starting salaries for POM graduates. Typical career positions in Production and Operations Management are Production Manager, Quality Manager, Operations Manager, Inventory/Materials Manager, Purchasing Manager, Facility Manager, Logistics and Distribution Manager, Productivity and Efficiency Analyst, all leading to Plant Manager and Chief Operations Manager.

### Requirements

1. Complete University requirements for the Bachelor of Science degree (51 units minimum).
2. Complete the prerequisites to the business administration degree.
3. Complete the business administration core.
4. Complete the concentration.

### The Concentration (12 units)

1. Complete the following courses (6 units):
  - POM 4570 Seminar in Total Quality Control, 3 units
  - POM 4590 Seminar in Production Management Strategies, 3 units
2. Complete two of the following courses as approved by the major adviser (6 units):
  - POM 4520 Productivity Management, 3 units
  - POM 4530 Operations Planning and Control Systems, 3 units
  - POM 4550 Advanced Quantitative Analysis Techniques, 3 units
  - POM 4890 Business Forecasting and Planning, 3 units
  - CIS 4770 Systems Analysis and Design, 3 units

**Note:** All courses in the Production and Operations Management concentration must be completed with a letter grade of "C" (2.0) or better.

### ***Upper Division***

***POM 3000 Quantitative Analysis for Business Decisions (3 units).*** Use of quantitative techniques to analyze and solve business problems; topics include linear programming, decision analysis, network models, project management, forecasting, inventory and queuing analysis. Computer applications in management science will also be included. (Lecture, 2 hours; computer lab, 2 hours). Prerequisites: Computer literacy (such as CIS 2000); MATH 1500, 1610; and junior standing. (Fall, Spring)

***POM 3510 Production and Operations Management (3 units).*** Management of production and operations in manufacturing and service enterprises, including product design, process selection, location and layout of the facility, control of quality and productivity, and production planning. Emphasis is on modern production management techniques. (Field trips) (Formerly 4510). Prerequisites: MATH 1610, and MGT 3310 and Junior standing. (Fall, Spring)

***POM 4520 Productivity Management (3 units).*** Techniques and approaches to measure and improve overall productivity in manufacturing and service enterprises. Problem solving techniques, work simplification, work design and measurement, human factors in productivity, measurement, and office automation. Prerequisite: POM 3510. (Fall)

***POM 4530 Operations Planning and Controls Systems (3 units).*** The design and operation of integrated production and inventory control systems. Detailed and aggregate scheduling of operations under deterministic and probabilistic demand conditions. Prerequisite: POM 3510. (Fall)

***POM 4550 Advanced Quantitative Analysis Techniques (3 units).*** Analysis by quantitative techniques for managerial planning and decision making. Mathematical programming; advanced linear, integer, quadratic, and dynamic programming. Stochastic models; Markov processes, probabilistic inventory models. Bayesian approach to decision-making processes. Prerequisite: POM 3000. (Spring)

***POM 4570 Seminar in Total Quality Control (3 units).*** How to establish and administer a total company-wide quality control program. Emphasis is placed on how to build quality into the market research–design–production–sales cycle to produce a quality and economic product. Quality Assurance, Quality Circles, and Statistical Quality Control will be included. Prerequisites: MATH 1610 and POM 3510. (Fall)

***POM 4590 Seminar in Production Management Strategies (3 units).*** Application of quantitative and management disciplines to development of production and operations strategies in the manufacturing as well as service industries. The instruction will emphasize the case method, plant tours, and an applied term project. New innovations and issues in production management will be included. Prerequisites: POM 3510. (Fall)

***POM 4890 Business Forecasting and Planning (3 units).*** Developing strategic plans with emphasis on product-market relationships and business forecasting techniques. Goal setting, objective specification, environmental definition and assessment, analysis and evaluation of the competitive situation, formulation of plans. Prerequisite: POM 3000. (Fall)

**POM 4910 Cooperative Education in Production, Operations & Management (2–4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment in production, operations and management. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental approval. Prerequisites: Sophomore standing and consent of departmental coordinator prior to registration. (Fall, Spring)

**POM 4940 Internship (3 units).** Supervised field experience in a selected area of production and operations management. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

**POM 4950 Selected Topics in Production and Operations Management (Topics to be specified in Class Schedule) (1–4 units).** Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**POM 4980 Individual Study (1–4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of instructor and approval of department chair prior to registration.

### **Graduate**

**POM 5020 Business Decision Techniques (3 units).** Topics include fundamentals of probability sampling, statistical estimation, test of hypotheses, analysis of variance and multivariate analysis. Emphasis is placed on the use of these techniques for business decision making. Prerequisite: Classified graduate standing or consent of instructor.

**POM 5040 Quantitative Business Methods (3 units).** Quantitative analysis in support of managerial decision making, the modeling process, linear programming, simulation, decision theory, statistical inference. Prerequisites: POM 5020 and a demonstrated knowledge of linear algebra.

**POM 5060 Seminar in Production and Operations Management (3 units).** Topics: Product design, process selection, location and layout analysis, productivity and quality management, materials management with emphasis on modern management techniques for manufacturing and service enterprises. (Formerly 5560).

**POM 5510 Advanced Quantitative Business Methods (3 units).** Advanced quantitative techniques for managerial planning and decision making, the modeling process; linear, integer, quadratic, and dynamic programming; system stimulation. Application of statistical methods to problems in business administration. Prerequisite: POM 5040 or equivalent.

**POM 5590 Advanced Topics in Production and Operations Management (3 units).** Applied course emphasizing the analysis, development, and execution of strategies affecting the production side of an enterprise. The case method approach will be followed. Modern production issues such as Just-In-Time production, computer integrated manufacturing, and factory and office of the future will be discussed. Prerequisite: POM 5060 or equivalent.

***POM 5630 Management of Quality (3 units)***. Study of the management of product quality. Design and controlling quality programs. Emphasis will be on Total Quality Control including Statistical Process Control. Applications in food processing, agriculture and manufacturing. Prerequisites: POM 5020 or equivalent.

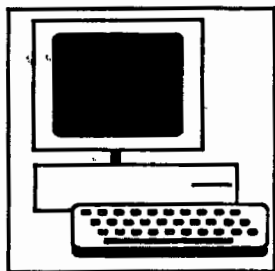
***POM 5940 Internship (3 units)***. Supervised field experience in a selected area of production and operations management. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

***POM 5950 Selected Topics in Production and Operations Management (Topics to be specified in Class Schedule) (1–4 units)***. Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

***POM 5960 Graduate Project (3 units)***. A terminal graduate project to be taken by students who have completed their course requirements. The project proposal must be approved by the project adviser(s). Prerequisite: Students must have completed all course requirements.

***POM 5980 Individual Study (1–4 units)***. For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of department chair prior to registration.

***POM 5990 Graduate Thesis (3 units)***. This enrollment involves consultation in the preparation of a master's thesis. May be repeated for a total of 6 units. Prerequisite: Completion of course work.



## Computer Information Systems

**Office:** Library Building 115, (209) 667-3568

**Chair:** Ronald W. Lodewyck

**Faculty:** Pi-Sheng Deng, Zbigniew Gackowski, Ronald W. Lodewyck, Eleftherios G. Tsacle

The Department of Computer Information Systems offers the degree Bachelor of Science, Computer Information Systems.

### Bachelor of Science, Computer Information Systems

This degree program provides a basic preparation for careers in computer information systems involving the management of information resources—computer data and voice communication—to support business operations and corporate strategy.

Degree objectives include (1) a broad based liberal education; (2) a basic understanding of business functions and organizations; (3) a basic understanding of computer information system functions; (4) proficiency in analyzing, evaluating and developing computer information systems to support decision making; and (5) specialization in developing computer information systems either for mainframe, or for microcomputer and/or small business computer oriented environments.

Computer information systems core courses introduce the student to business functions, organizations, computer information systems concepts and practice. The core develops effective skills to analyze, design, implement, and evaluate computer information systems to support decision making and transaction processing.

Students majoring in computer information systems must choose one of two concentrations that focus either on the development and management of large structured mainframe systems or on small semi-structured and unstructured microcomputer systems. The *Systems Analysis and Design Concentration* prepares students for such careers as business systems analyst, data base administrator, information systems manager, and business programmer. These careers would typically occur in DP/MIS mainframe-oriented environments. The *Decision Support Systems Management Concentration* prepares students for such careers as small business analyst, information center specialist, decision support systems analyst, and end-user computing and information center manager. These careers would typically occur in information centers, end-user functional departments and in small business computing microcomputer environments.

### Requirements

1. Complete University requirements for the Bachelor of Science degree (51 units minimum).
2. Complete the following prerequisites to the major:
  - ACC 2110 Financial Accounting, 3 units
  - ACC 2130 Managerial Accounting, 3 units
  - BLW 2060 Law, Environment and Ethics, 3 units
  - CIS 2010 COBOL Programming and Information Systems, 3 units\*

\* Requires computer literacy

#### 414 / Computer Information System

ECON 2500 Principles of Economics I, 3 units  
ECON 2510 Principles of Economics II, 3 units  
MATH 1500 Finite Mathematics, 3 units  
MATH 1610 Statistics for Decision Making, 3 units

3. Complete the major and one of the two concentrations below with a letter grade of "C" (2.0) or better.
4. Complete the English Proficiency Requirement, 3 units  
ENGL 3007 Business and Technical Communication, 3 units
5. Completion of a minor is not required.

*Note: Prospective computer information systems majors should emphasize General Education during the first two years, thus laying a foundation upon which the program can be built.*

### The Major (30 units)

Complete the following core courses (30 units):

CIS 3780 Management Information Systems and Microcomputers, 3 units  
CIS 4720 Data Base Management Systems, 3 units  
CIS 4770 Systems Analysis and Design, 3 units  
FIN 3220 Business Finance, 3 units  
MGT 3310 Management Theory and Practice, 3 units  
MGT 3400 Seminar in International Business, 3 units  
MGT 4900 Business Policy, 3 units  
MKT 3410 Basic Marketing, 3 units  
POM 3000 Quantitative Analysis for Business Decisions, 3 units  
POM 3510 Production and Operations Administration, 3 units

### The Concentrations (15 units)

Complete one of the following concentrations (15 units):

#### 1. Systems Analysis and Design

CIS 3011 Advanced COBOL Programming, 3 units  
CIS 4780 Computer Information Systems Design, 3 units  
CIS 4790 Applied Software Development Project, 3 units

*Complete two of the following:*

CIS 3730 Structured Programming, 3 units  
CIS 3760 Computer Graphics, 3 units  
CIS 4710 Information Systems Management, 3 units  
CIS 4740 Advanced Data Base Management Systems, 3 units  
CIS 4750 Decision Support Systems, 3 units  
CIS 4800 Business Data Communications, 3 units

#### 2. Decision Support Systems Management

CIS 4710 Information Systems Management, 3 units  
CIS 4750 Decision Support Systems, 3 units  
CIS 4760 Decision Support Development Project, 3 units

*Complete two of the following:*

CIS 3011 Advanced COBOL Programming, 3 units  
CIS 3730 Structured Programming, 3 units  
CIS 3760 Computer Graphics, 3 units  
CIS 4740 Advanced Data Base Management Systems, 3 units  
CIS 4780 Computer Information Systems Design, 3 units  
CIS 4800 Business Data Communications, 3 units  
POM 4520 Productivity Management, 3 units

## Minor in Computer Information Systems

### Requirements (24 units)

1. Complete the following prerequisites to the minor (18 units):
  - ACC 2110 Financial Accounting, 3 units
  - CIS 2010 COBOL Programming and Information Systems, 3 units
  - CIS 3780 Management Information Systems and Microcomputers, 3 units
  - ECON 2510 Principles of Economics II, 3 units
  - MATH 1610 Statistics for Decision Making, 3 units
  - MGT 3310 Management Theory and Practice, 3 units
2. Complete two of the following courses (6 units):
  - CIS 3011 Advanced COBOL Programming, 3 units
  - CIS 3730 Structured Programming, 3 units
  - CIS 4710 Information Systems Management, 3 units
  - CIS 4720 Database Management Systems, 3 units
  - CIS 4750 Decision Support Systems, 3 units
  - CIS 4770 Systems Analysis and Design, 3 units
  - CIS 4800 Business Data Communications, 3 units

### Lower Division

**CIS 2000 Introduction to Business Computer Systems (3 units).** An introduction to the use of computers in business. Concepts, components, and operation of computer systems. Hardware, software, procedures, systems and their integration into business applications. BASIC programming. Introduction to microcomputers. Prerequisites: Sophomore standing. (Fall, Spring)

**CIS 2010 COBOL Programming and Business Information Systems (3 units).** The application of the COBOL programming language to business information systems. Report preparation and validation techniques. Mass-storage file management. Course is designed for the person who has an understanding of data processing fundamentals and an introduction to programming. Prerequisite: Computer literacy (such as CIS 2000).

**CIS 2950 Selected Topics in Business Computer Information Systems (Topics to be specified in Class Schedule) (1-4 units).** Development of a selected topic in CIS. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

### Upper Division

**CIS 3011 Advanced COBOL Programming (3 units).** A continuation of CIS 2010. This course will place emphasis on advanced programming methods and techniques in COBOL. Students will become knowledgeable in file creation, data retrieval, report formatting, data sorting, table structures, advanced debugging tools, in conjunction with features of COBOL Reportwriter software. Field trips may be required for on-site exposure. Prerequisite: CIS 2010.

**CIS 3730 Structured Programming (3 units).** Solving business problems using structured programming techniques. The student will be introduced to top-down design, modular program techniques, and the rules of structured program design. Programming will be done in C or ADA utilizing all the coding components for data manipulation, data sorting and report writing using structured methodology. Prerequisite: Computer literacy (such as CIS 2000).



**CIS 3760 Computer Graphics (3 units).** An introduction to interactive computer graphics with emphasis on business and management applications. Topics will include the graphic representation of data, coordinate systems, graphic primitives, transformations, display structures, types of display, and data acquisition devices. Prerequisites: Computer literacy (such as CIS 2000) and CIS 2010.

**CIS 3780 Management Information Systems and Microcomputers (3 units).** A focus on management considerations of information technology, specifically microcomputers, in the business environment. Students will prepare projects involving hands-on learning of decision support, data base, financial accounting, marketing, operations, software in microcomputers. Prerequisite: Computer literacy (such as CIS 2000). (Fall, Spring)

**CIS 4710 Information Systems Management (3 units).** An examination of the strategic impact of information technology on the contemporary business environment. Management of the information resources in the modern business environment, with emphasis on planning, organizing, and controlling the services provided by the Computer Information Systems function for the users. Managing of end-user computing and information centers. Case studies. Prerequisite: CIS 4770. (Fall)

**CIS 4720 Data Base Management Systems (3 units).** The design and implementation of computer-based data bases utilizing a commercial data base management system from the business systems analyst's point of view. Provides background for the intelligent selection and use of data base management systems. Topics include discussion of types of available systems, functions of data base administration, conceptual data base design, data independence integrity, privacy, and query. The student will design and implement a data base utilizing a data base management system. Prerequisites: CIS 2010 or one semester of another programming language. (Spring)

**CIS 4740 Advanced Data Base Management Systems (3 units).** A continuation of CIS 4720. Students will spend most of their time completing DBMS projects using commercial database systems. Emphasis will be placed on the ability to design and execute a real world DBMS for real firms using mainframe and micro packages. Prerequisite: CIS 4720.

**CIS 4750 Decision Support Systems (3 units).** The design and implementation of computer-based decision support systems using commercial DSS generators software, like LOTUS 1-2-3, IFPS, FOCUS. Emphasis is given to both model and data-oriented decision support systems, including the usage of influence diagrams and entity-relationship diagrams. Expert systems are also introduced through a hands-on learning of expert systems software. Prerequisites: Computer literacy (such as CIS 2000) and POM 3000. (Spring)

**CIS 4760 Decision Support Development Project (3 units).** Application of decision support development concepts, principles and practices to a real world comprehensive systems development project. Student teams will work for a regional firm to analyze, design, document and implement realistic DSS of moderate complexity. Use of appropriate project management methods (scheduling and control) in the solution of a real problem. This is an integration intended as the capstone of the major. Prerequisite: CIS 4750.

**CIS 4770 Systems Analysis and Design (3 units).** The analysis and design of computer-based information systems and major computer application projects. The systems development life cycle is studied. The tools and techniques of system studies, problem definition, feasibility study, systems design, and implementation. Case studies. Prerequisites: CIS 2010 and ACC 2110. (Fall, Spring)

**CIS 4780 Computer Information Systems Design (3 units).** The conceptual background and structure of computer-based information systems which support decision making at all levels of management. Includes the planning, design, implementation, administration, and control of management information systems. Topics include computer-based systems, information structure, systems concepts, systems analysis and evaluations, management and technological considerations of information systems in the process of fulfilling information requirements of all functional areas of organization management. Prerequisites: CIS 3011, 4720, and 4770. (Fall)

**CIS 4790 Applied Software Development Project (3 units).** Application of computer programming and system development concepts, principles and practices to a real world comprehensive systems development project. Student teams will work for a regional firm to analyze, design, document and implement realistic systems of moderate complexity. Use of appropriate project management methods (scheduling and control) in the solution of a real problem. This is an integrative experience intended as the capstone of the major. Prerequisite: CIS 4780.

**CIS 4800 Business Data Communications (3 units).** Data communications in a business environment: Media and hardware; data link protocols; networking, including Local Area Networks; distributed databases; technical and managerial issues; preparing and implementing a communications plan. Hands-on projects, field trips, and case studies. Prerequisite: Computer literacy (such as CIS 2000).

**CIS 4910 Cooperative Education in Computer Information Systems (2-4 units).** This course provides an opportunity to acquire relevant employment in computer information systems. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental approval. Prerequisites: Sophomore standing and consent of departmental coordinator prior to registration. (Fall, Spring)

**CIS 4940 Internship (3 units).** Supervised field experience in a selected area of computer information systems. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

**CIS 4950 Selected Topics in Computer Information Systems (Topics to be specified in Class Schedule) (1-4 units).** Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**CIS 4980 Individual Study (1-4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of department chair prior to registration.

## **Graduate**

**CIS 5060 Computers in Business (3 units).** An introduction to computer hardware and software, problem definition, and flowcharting. Introduction to microcomputer-based modeling and analysis, plus BASIC programming.

**CIS 5620 Computer Information Systems (3 units).** An overview of the concepts and structure of computer-based information systems which support decision making at all levels of management. Topics include the definition and role of CIS; the uses of CIS; various organizational information systems; computer hardware, software; data base systems and the principles of CIS development and management. Prerequisites: POM 5040, CIS 5060, ACC 5070, or equivalents.

**CIS 5650 Program, Data, and File Structures (3 units).** Advanced programming techniques and structured programming concepts using COBOL. Examines the logical and physical structures of both programs and data. Covers data organization and accessing, and sequential and index-sequential file access techniques. Prerequisite: CIS 5620 or equivalent.

**CIS 5710 Decision Support Systems (3 units).** An overview of the concepts and structure of decision support systems and expert systems. Design of knowledge-based interactive systems to assist management decision-making. Emphasizes rationale for design, interface characteristics, and data structures necessary for managers. Uses DSS/expert system software such as GURU, Lotus 1-2-3, Excel, IFPS, FOCUS, and Paradox to provide practice in developing end-user systems. Prerequisite: CIS 5620 or equivalent.

**CIS 5750 Data Base Management Systems (3 units).** The design and implementation of data bases utilizing a data base management system. Acquaints students with the concepts of Information Resource Management, including information as an organization resource, database design, database administration, data dictionaries, query systems, and data security. Students will design and implement a database information system using a database management software package.

**CIS 5940 Internship (3 units).** Supervised field experience in a selected area of computer information systems. Formal written report(s) will be required. The course may be repeated for a total of 6 units. Prerequisite: Consent of internship coordinator prior to registration.

**CIS 5950 Selected Topics in Business Computer Information Systems (Topics to be specified in Class Schedule) (1-4 units).** Innovative course of study. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**CIS 5960 Graduate Project (3 units).** A terminal graduate project to be taken by students who have completed their course requirements. The project proposal must be approved by the project adviser(s). Prerequisite: Students must have completed all course requirements prior to registration.

**CIS 5980 Individual Study (1-4 units).** For students capable of independent work and in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisites: Consent of instructor and approval of department chair prior to registration.

**CIS 5990 Graduate Thesis (3 units).** This enrollment involves consultation in the preparation of a master's thesis. May be repeated for a total of 6 units. Prerequisite: Completion of course work.



# School of Education

Office ..... Classroom Building 103, (209) 667-3145  
 Dean (Interim).....Richard D. Conant

**Departments and Chairs:**

Advanced Studies in Education .....Roy Yasui  
 Physical Education and Health .....Martha M. Moren  
 Teacher Education .....Doni K. Kobus

**Program Coordinators:**

Administrative Services Credentials .....Tod Anton  
 Language Development Specialist  
 Certificate Program .....Joan Wink  
 Learning and Severely  
 Handicapped Credentials .....Jane Howard  
 Karen Sniezek  
 Multiple Subjects Credential .....Pamela Russ  
 Multiple Subjects with a Bilingual Emphasis .....Leodoro Hernandez  
 Pupil Personnel Services Credential .....Nina Ribak-Rosenthal  
 Reading Specialist Credential .....Janet Towell  
 Single Subject Credential .....Jane E. Diekman  
 Vocational Education .....Lilia Baballe

**Credentials Analyst** .....Lilia Baballe

**Degrees Offered:**

- Bachelor of Arts in Physical Education
- Bachelor of Arts in Vocational Education
- Master of Arts in Education with an emphasis in one of the following areas:
 

Administration and Supervision	School Counseling
Elementary Education	Secondary Education
Physical Education	Special Education
Reading	

**Purpose**

The School of Education has, as one of its major missions, the education of classroom teachers and physical educators. In addition, the School prepares students for careers in teaching-related professions as administrators, counselors, reading specialists, and special educators. These programs are designed to provide a strong knowledge of academic disciplines, an understanding of the behavioral and social sciences as applied to the field of education, the application of current research and technology to improve instruction, and a proficiency in the technical skills necessary to become an outstanding professional.

The School offers both preliminary and advanced credential programs that are approved by the Commission on Teacher Credentialing. At the graduate level, the Master of Arts in Education is designed for educators who wish advanced study in curriculum and instruction, administration, or counseling. It is also possible to pursue an advanced credential in conjunction with a master's degree. The School also provides professional preparation for students in physical education and health.

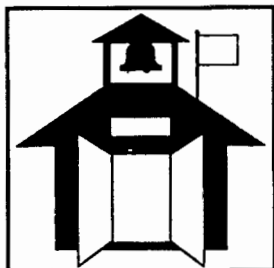
The programs of the School of Education have achieved distinction through accreditation at the national level by the National Council for Accreditation of Teacher Education (NCATE), at the regional level by the Western Association of Schools and Colleges (WASC), and at the state level by the California Commission on Teacher Credentialing (CTC).

Because the credential programs of the School of Education are designed for the preparation of school teachers, counselors, and administrators, it is necessary to ensure that students are able to meet both the academic and field work requirements and competencies.

### **Disabled Students Policy**

Disabled students, who may need to have academic adjustments, will be evaluated on a case-by-case basis. Appropriate academic adjustments will be agreed upon by the Director of Disabled Student Services, related program professionals, and the student prior to course work and placement in field work. Academic adjustments refer to adaptations for a professionally verified disabled student as related to supportive services. Such adjustment does not refer to a variance of academic and technical standards requisite for the issuance of a credential.

Students are responsible for initiating the process. A copy of the Policy and Procedures for Disabled Students of the School of Education is available from your program coordinator or the departmental office.



## Credential Programs

Office: Classroom Bldg 122A,  
(209) 667-3534  
Credential Analyst: Lilia Baballe

The Dean of the School of Education has administrative responsibility for the University's credential programs. Support for credential programs administration is provided by the Credentials Office and the Chairs of the Department of Advanced Studies in Education and the Department of Teacher Education. The Commission on Teacher Credentialing (CTC) has approved the University's programs leading to the credentials listed below:

<i>Credential</i>	<i>Coordinator</i>	<i>Department</i>
1. Preliminary Administrative Services	T. Anton	Advanced Studies in Education
2. Professional Administrative Services	T. Anton	Advanced Studies in Education
3. Language Development Specialist Certificate Program	J. Wink	Teacher Education
4. Learning Handicapped	K. Sniezek/J. Howard	Advanced Studies in Education
5. Severely Handicapped	K. Sniezek/J. Howard	Advanced Studies in Education
6. Preliminary Multiple Subjects Professional Clear Multiple Subjects: Turlock Campus Bilingual/Cross-Cultural Emphasis Stockton Center	P. Russ A. Schulz	Teacher Education
7. Pupil Personnel Services: School Counseling	L. Hernandez N. Ribak-Rosenthal	Teacher Education Teacher Education
8. Reading Specialist	N. Ribak-Rosenthal	Advanced Studies in Education
9. Preliminary/Professional Clear Single Subject	J. Towell J. Dickman	Teacher Education Teacher Education

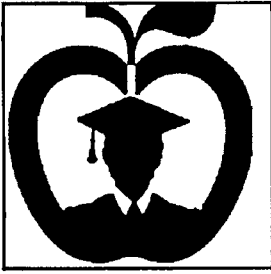
General information regarding credential programs is provided by the Credentials Office and the University catalog. After obtaining general information on program and admission requirements, interested persons may refer specific questions to appropriate program coordinators.

Applicants are urged to pay particular attention to program application deadlines as well as tests such as NTE and CBEST, and other prerequisites that must be

completed prior to admission to a credential program. Advanced credential applicants should contact the program coordinators, as listed above. Legal and administrative changes in California credential requirements may affect certain students regardless of University program/degree rights.

Holders of preliminary teaching credentials, as well as those people seeking a professional clear credential as their first regular California teaching credential, need to complete an approved program of "fifth-year" work for recommendation by CSU Stanislaus to the Commission on Teacher Credentialing. They are directed to make an appointment for professional clear credential/fifth year advising through the Department of Teacher Education (C-125, 667-3357).





## Advanced Studies in Education

**Office:** Classroom Building 100A, (209) 667-3364  
**Chair:** Roy Y. Yasui  
**Faculty:** Tod A. Anton, Joseph W. Corbin\*, Diana Mayer Demetrulias\*, Jane Diekman\*, Granger Dinwiddie, Charles R. Farrar\*, Joseph Galbo\*, Charles C. Hanna (Emeritus), Leodoro Hernandez\*, R. J. Moriconi (Emeritus),\* Nina Ribak-Rosenthal\*, Haig A. Rushdoony\*, Karen M. Sniezek, Lorna M. Swain (Emeritus), Cathy L. Watkins, William G. Webster\*, Roy Y. Yasui\*

*Note: Asterisks indicate faculty with joint appointments in the Department of Teacher Education.*

The Department of Advanced Studies in Education offers graduate programs leading to a Master of Arts in Education, with concentrations in administration and supervision, school counseling, and special education. Students interested in graduate degree programs may obtain information from the Department Office or the Graduate Studies Office in the Library Building. (L-145 K/E)

Also available are professional programs which prepare candidates for advanced credentials in school administration, school counseling, and the special education areas of learning handicapped and severely handicapped. These professional programs are designed to help students achieve basic competencies essential to effective performance within the range of services authorized. Students interested in these advanced credential programs may obtain information from the Department Office or the Credentials Office (C-122A).

All advanced credential programs are presently approved by the Commission on Teacher Credentialing in fulfillment of certification regulations. The California State Board of Education and the Commission are empowered to change advanced credential requirements without prior notice. The University will make changes in programs leading to advanced credentials whenever revisions are reported to it in the *California Code of Regulations, Title 5, Education* or in other official notifications from the State Board or the Commission.

### Graduate Studies in the Department

Prerequisites, procedures, and requirements for the M.A. degree and for advanced credentials are described below. Also included is general information relevant to graduate studies.

<i>M.A. Area</i>	<i>Advanced Credential</i>	<i>Coordinator</i>	<i>Phone</i>
Administration and Supervision	Preliminary Administrative Services, Professional Administrative Services	Tod Anton (C-126B)	667-3260/ 667-3364
School Counseling	Pupil Personnel Services	Nina Ribak-Rosenthal (C-126A)	667-3447/ 667-3364
Special Education	Learning/Severely Handicapped	Karen Sniezek (C-100A) Jane Howard (C-231G)	667-3364 667-3386

## Master of Arts Degree

The Department of Advanced Studies in Education offers a Master of Arts degree in Education with an emphasis in one of these areas:

- Administration and Supervision
- School Counseling
- Special Education

## Prerequisites

To be considered for admission to the M.A. program, the applicant must:

1. Possess a baccalaureate degree.
2. Obtain a total score of at least 100 using the following formula for grade point average (GPA), based on the last 60 units of college/university course work, and the Miller's Analogies Test (MAT score:  $GPA \times 20 + MAT \text{ score} = \text{total score}$ ). For example, a student with a GPA of 3.0 and an MAT score of 40 would qualify for admission with a total score of 100 ( $3.0 \times 20 + 40 = 100$ ).
3. Possess a valid basic teaching credential if applying for study in the area of Special Education.

## Application Procedures

1. Complete the University Admission form and file it with the Admissions Office in the Library Building (L-110).
2. Submit transcripts including at least the last 60 units of college/university degree course work to the Admissions Office.
3. Submit program application and receipt for program application fee to the Department of Advanced Studies in Education Office (C-100A).
4. Submit letters of recommendation as required, which discuss the applicant's potential for graduate-level study, to the Department of Advanced Studies in Education Office (C-100A).
5. Submit MAT score to the appropriate Program Coordinator if applying to the MA program. (For MAT information and testing procedures, contact the Testing Office on campus; 667-3157)
6. Submit proof of valid basic teaching credential to the Department of Advanced Studies in Education Office, if area of emphasis is Special Education.

## Admission Classifications

The student applying for the M.A. program may be placed in one of two classifications:

1. *Postbaccalaureate Standing: Unclassified* (Permits one to enroll in classes as specified by M.A. area coordinator). To be admitted to Postbaccalaureate Standing: Unclassified, the applicant must:
  - a. Complete the University Admission form.
  - b. Meet CSU Stanislaus admission requirements.
2. *Graduate Standing: Classified* (Admission to the M.A. program is granted). To move to Graduate Standing: Classified, the applicant must:
  - a. Submit letters of recommendation. (Check with the specific advanced credential program coordinator for the exact number required.)
  - b. Submit Miller Analogies Test score.
  - c. Submit proof of valid teaching credential if area of emphasis is Special Education.
  - d. Complete at least six units of M.A. Education course work in residence with at least a 3.0 GPA.
  - e. Fulfill writing competence by obtaining a score of at least 41 on the writing section of CBEST, a minimum score of 630 on the CLEP, or successful completion of English 3009 or its equivalent.
  - f. Meet any other additional requirements (e.g., interviews) as specified in each M.A. area
  - g. Have program file evaluated by the Advanced Credential Programs Committee. (This will be done automatically after submission of documents; notification of admission status from the area coordinator will follow.)

**Note:** *Prior to being admitted to program, international applicants whose native language is not English must demonstrate proficiency in English by completing the Test of English as a Foreign Language (TOEFL) with a score of at least 550 and with part scores of at least 54.*

## Requirements

1. **Course Work Requirements**—No more than nine semester units of course work completed in Postbaccalaureate Standing: Unclassified may be applied to a Master's degree. The total number of units, as well as specific courses required, vary with each area of emphasis of the M.A. in Education. (See the specific area coordinator for requirements.)
2. **Grade Requirements**—The minimum academic grade point average for earning the M.A. degree is 3.0. The minimum acceptable grade for courses included in the M.A. program is a "C." In the School Administration Program, a student earning a grade of "C" is considered to be on probation; on earning a second "C," the candidate will be disqualified.
3. **Final Requirements**—The M.A. in Education degree requires the successful completion of all course work, approval of a written project or thesis, and passing of an oral examination. At least 15 semester units must be completed as a student in Graduate Standing: Classified. After all requirements have been met, the student will be awarded the M.A. degree.

## Common Course Work Requirements (11 units minimum)

1. Complete one of the following foundation courses, depending on the specific M.A. area of emphasis (3 units):  
EDGS 5010 Education in Society, 3 units, *or*  
EDGS 5040 Philosophy of Education, 3 units
2. Complete the following common studies courses, 7 units:  
EDGS 5050 Methods of Research in Education, 4 units *and*  
EDGS 5060 Theories of Instruction, 3 units
3. Complete a project/thesis (minimum of one enrollment is required):  
*Note: The project/thesis courses may be repeated for a total of 4–6 units.*

## Advanced Credentials

The following advanced credentials may be completed independent of or in conjunction with the Master of Arts degree:

- Learning Handicapped Specialist Credential
- Preliminary Administrative Services Credential (Tier I)
- Professional Administrative Services Credential (Tier II)
- Pupil Personnel Services Credential (School Counseling)
- Severely Handicapped Specialist Credential

*Note: Frequently, students obtain an advanced credential and the M.A. degree (especially in Administration and Supervision) since school districts often require both the M.A. and the advanced credential of their specialist employees. When seeking the advanced credential in conjunction with the M.A. degree, the student is subject to the regulations described previously, as well as those which follow. When seeking an advanced credential only, the student is subject to the following regulations:*

## Prerequisites

To be considered for admission to an advanced credential program *only*, the applicant must:

1. Possess a baccalaureate degree.
2. Have earned at least a 2.75 GPA in the last 60 units attempted.
3. Possess a valid teaching credential, except for the Pupil Personnel Services Credential Program for which experience with youth may be deemed appropriate and approved as a substitute for the teaching credential. (See the Pupil Personnel Services Credential Program coordinator to obtain such approval.)

## Application Procedures

To apply for admission and become fully admitted to an advanced credential program *only*, the applicant must:

1. Complete the University Admission form and file it with the Admissions Office in the Library Building (L-110).
2. Submit transcripts of college/university course work, to include at least the last 60 units, to the Admissions Office.
3. Submit program application and receipt for program application fee to the Department of Advanced Studies in Education Office (C-100A).
4. Submit letters of recommendation to the Department of Advanced Studies in Education Office (C-100A). (Check with the specific advanced credential program coordinator for the exact number required.)

5. Submit test scores (e.g., CBEST), as required by the specific advanced credential program, to the Graduate Studies Office.
6. Submit proof of valid teaching credential to the Graduate Studies Office, except for the Pupil Personnel Services Credential Program for which appropriate experience may be substituted. (See the Pupil Personnel Services Credential Program coordinator to obtain such approval.)
7. Participate in an interview and/or have the program file evaluated by a credential program committee, depending on the requirements of the specific credential program.

## Admission Classifications

The student applying only for a credential program may be placed in one of two classifications:

1. *Postbaccalaureate Standing: Unclassified* (Permits one to enroll in classes as specified by M.A. area coordinator.) To be admitted to Postbaccalaureate Standing: Unclassified, the applicant must:
  - a. Complete the University Admission form.
  - b. Meet CSU Stanislaus admission requirements.
2. *Postbaccalaureate Standing: Classified* (Admission to the advanced credential program is granted. Note that the requirements for individual credential programs will vary from the requirements listed below. The applicant should obtain more detailed information from the coordinator of the specific advanced credential program.) To move to Graduate Standing: Classified, the applicant must:
  - a. Submit transcripts including at least the last 60 units of college/university course work.
  - b. Submit program application and receipt for program application fee to the Department of Advanced Studies in Education Office (C-100A).
  - c. Submit letters of recommendation. (The number of letters may vary depending on the advanced credential the student is seeking.)
  - d. Submit passing CBEST scores and/or other test scores as required.
  - e. Submit proof of valid teaching credential. Candidates for the Pupil Personnel Services Credential may submit Certificate of Clearance form and fingerprint cards. (See the Credentials Secretary in the Classroom Building, C-122A, for materials.)
  - f. Complete at least eight units of advanced program course work with at least a 3.0 GPA.
  - g. Participate in an interview and/or have the program file evaluated by a credential program committee, depending on the specific advanced credential program.

## Requirements

1. **Course Work Requirements**—No more than nine semester units of course work in Postbaccalaureate Standing: Unclassified may be applied to an advanced credential program. The total number of units, as well as specific courses required, vary with each area of emphasis within the credential area. (See the specific area coordinator for requirements.)
2. **Grade Requirements**—Students seeking an advanced credential are expected to maintain GPA of 3.0 while in the program. The minimum acceptable grade for a credential course is a “C.” In the School Administration Program, a student on earning a grade of “C” is considered to be on probation; on earning a second “C,” the candidate will be disqualified.

3. **Final Requirements**—To obtain the required recommendation for the advanced credential from CSU Stanislaus, the student must:
- Complete all of the course work required in the advanced credential program.
  - Achieve competency in the knowledge and skill areas of the program.
  - Submit a minimum overall GPA of 3.0 for all course work required for the credential.
  - Submit a completed application form for the credential, with a receipt which verifies that fees have been paid, to the Credentials Office (C-122A). (See the Credentials Secretary, shortly after midterm of the final semester in program, for assistance in completing the application process for the credential.)
  - Be recommended for the credential by the Coordinator of the appropriate advanced credential program.

### Class Scheduling

Courses are scheduled in the late afternoon and evening to enable employed individuals to enroll in classes. Most courses in School Administration will begin at 5:00 p.m. A schedule, available upon request from the Coordinator, outlines the days and semesters that each course will be offered.

*Note: Early registration is strongly recommended. Limits are placed on class size; consequently, enrollment is not guaranteed.*

## Administrative Services Credentials Preliminary and Professional

Coordinator: Tod Anton

### The Preliminary Administrative Services Credential Program

This is a competency-based program designed to prepare students for their initial administrative assignments. In addition to the requirements listed earlier, the applicant to this program must have successfully completed three years of teaching. By the end of the preliminary period of five years, the holder must meet the requirements for the Professional Administrative Services Credential. (For additional information, the applicant is asked to purchase the Education Administration Handbook at the KIVA or Delta campus bookstores and/or contact the department secretary.)

### Requirements (24 units)

- Complete the following courses (24 units):
  - EDAD 5810 Seminar in Curriculum Planning and Supervision, 4 units
  - EDAD 5820 Educational Leadership and Personnel Management, 4 units
  - EDAD 5830 Seminar in Principalship and School Management, 4 units
  - EDAD 5840 Seminar in School Finance and School Law, 4 units
  - EDAD 5850 Seminar in School Governance, Politics, and Community Relations, 4 units
  - EDAD 5940 Field Work: Administration/Supervision, 2 units  
(repeated for a total of 4 units)

## The Professional Administrative Services Credential Program

This is a competency-based program designed, as a natural sequel to the preliminary administrative credential program, to enhance the students' professional skills to succeed in school administrative assignments. In addition to meeting regular standards for admission to graduate study at the University and meeting requirements such as a letter of sponsorship, proof of valid Preliminary (or Clear) Administrative Services Credential, and a GPA of at least 3.0 in the last 60 units of college/university course work, the applicant for this program must be able to verify that at least 12 units of the program were completed while in a position requiring the Preliminary Administrative Services Credential and that at least two years of successful experience has occurred in such a position. This credential is valid for five years and is renewable. (For additional information and program course work advisement, the applicant is asked to contact the program coordinator.)

### Requirements (24 units)

#### 1. Complete the following courses (24 units):

EDAD 5890	Individual Assessment – PASC Program, 1 unit
EDAD 5891/5853	Organizational Theory/Practice and Instructional Leadership, 5 units*
EDAD 5892/5863	Evaluation of Educational Effectiveness <i>and</i> Implementing Staff Development, 4 units*
EDAD 5893/5873	School Law, Organizational Politics, and Cultural <i>and</i> Socio-Economic Diversity, 5 units*
EDAD 5894/5883	Management of Human, Fiscal, and Materials Resources, 5 units*
EDAD 5895	Advanced Study in School Administration, 4 units, <i>or</i> Other advanced course work outside of educational administration, 4 units

\* Includes field experience units

## Learning Handicapped Specialist Credential and Severely Handicapped Specialist Credential

**Coordinators:** Karen Sniezek/Jane Howard

The University is authorized to recommend individuals for a specialist credential in two areas of study in special education: Learning Handicapped and Severely Handicapped. Undergraduates may complete some of the generic course work by enrolling in the Liberal Studies major with a concentration in Exceptional Children and Youth.

Admission to either of the specialist programs requires a basic teaching credential and a GPA of 3.0. A multiple subjects credential is preferred, but single subject credential holders, with appropriate additional course work, may obtain a specialist credential. Applications are available in the Advanced Studies Office in C-100A and must be completed and submitted by specified dates before applicants can be scheduled for an admission interview. Admission to a specialist credential program or consent of program coordinator is required before enrolling in any advanced course work.

The Learning and the Severely Handicapped specializations share generic course work. Therefore, it is possible for students to pursue both credentials concurrently. Students with strong academic records are encouraged to pursue both a specialist credential and an M.A. in Education with an emphasis in the area of special education.

Recommendation for either specialist credential by CSU Stanislaus requires completion of a competency-based sequence of specified course work (33 units), as well as satisfactory performance during a comprehensive oral examination. (See the "Special Education Student Handbook" for further description of the programs and policies. The Handbook is available in the KIVA Bookstore.)

**Requirements: Single Credential (33 units)**

**Double Credential (42 units)**

1. Complete the following generic course work (24 units):
  - EDSE 4310 Introduction to Special Education Programs, 3 units
  - EDSE 4330 Assessment and Instruction of Language for Exceptional Pupils, 3 units
  - PSYC 4550 Practicum in Direct Instruction, 3 units
  - PSYC 4560 Theory of Direct Instruction, 3 units
  - PSYC 4750 Applied Behavior Analysis for Learning and Severely Handicapped, 3 units
  - EDSE 5410 Guidance for Exceptional Child and Parent, 3 units
  - EDSE 5420 Curriculum and Instruction: Learning and Severely Handicapped, 3 units
  - EDSE 5430 Prescriptive/Individualized Instruction: Learning and Severely Handicapped, 3 units
2. Complete the following advanced course work for the Learning Handicapped Credential (9 units):
  - EDSE 5450 Remedial Techniques and Research for Learning Handicapped, 3 units
  - EDSE 5947 Field Work: Learning Handicapped, 3 units  
(repeated for a total of six units)
3. Complete the following advanced course work for the Severely Handicapped Credential (9 units):
  - EDSE 5440 Teaching the Severely Handicapped, 3 units
  - EDSE 5948 Field Work: Severely Handicapped, 3 units each,  
(repeated for a total of six units)

**School Counseling Credential**

**Coordinator:** Nina Ribak-Rosenthal

This program is designed for teachers and other professionals who possess appropriate preparation and experience. Elementary or secondary certification is recommended, although not required. Counseling field experiences are at the elementary and secondary levels, as well as with agencies. (See the Pupil Personnel Services Credential Program Coordinator for admission information and advisement.)

**Requirements (39 units)**

1. Complete the following courses (36 units):
  - EDCL 5530 Testing in Education and Counseling, 3 units
  - EDCL 5540 Counseling Exceptional Children and At-Risk Youth, 3 units
  - EDCL 5570 Counseling and Guidance in Education, 3 units



EDCL 5600	Family Counseling and Community Resources, 3 units
EDCL 5610	Educational and Occupational Information, 3 units
EDCL 5630	Dealing with Differences in Educational Settings, 3 units
EDCL 5640	The Counselor, 3 units
EDCL 5650	School Group Guidance and Counseling Techniques, 3 units
EDCL 5760	Pupil Personnel Services Seminar, 3 units
EDCL 5780	Consultation and Supervision in School Counseling, 3 units
EDCL 5940	Field Work: School Counseling, 2 or more enrollments for a total of 9 units

## Course Descriptions

### *Administration: Preliminary Services Credential*

*Note: Courses with asterisks are open only to those people who are candidates for the Professional Administrative Services Credential.*

**EDAD 5810 Seminar in Curriculum Planning and Supervision (4 units).** Procedures for curriculum development and implementation; movements and trends as related to modern practices; basic principles of human growth and development; community involvement and proper resource utilization in curriculum development; multicultural education; supervision and evaluation of instruction; techniques of staff development; diagnosis and improvement of instruction; evaluation of pupil achievement; roles of staff, pupils, parents, and community in curriculum development. Prerequisite: Meet admission standards for Preliminary Administrative Services Credential Program.

**EDAD 5820 Educational Leadership and Personnel Management (4 units).** Concepts of leadership; administrators and group processes; self-evaluation; human relations; professional ethics; decision making processes and techniques; concepts and procedures related to development of school climate for effective learning; short-term and long-range planning; concepts and principles of personnel management; affirmative action; recruitment, selection, assignment of personnel; dismissal of staff members; principles of supervision and evaluation of certificated and classified staff; personnel relations, including collective bargaining. Prerequisite: Meet admission standards for Preliminary Administrative Services Credential Program.

**EDAD 5830 Seminar in Principalship and School Management (4 units).** Responsibilities of the principal as related to establishing and maintaining effective schools; organizational relationships in elementary and secondary schools, together with problems and procedures; the principal and school control; teacher personnel, pupil personnel, classified personnel; guidance; community relationships; school management; developing and implementing goals; administration of special education mainstreaming; office management, plant management; computer applications; communications; conflict resolution and management of personal stress. Prerequisite: Meet admission standards for Preliminary Administrative Services Credential Program.

**EDAD 5840 Seminar in School Finance and School Law (4 units).** Principles and practices of school finance and business administration; financing public schools in America with focus on history, funding sources, types of funding, district and site-level budgeting, warehousing, pupil transportation, facilities planning, financial implications of personnel contracts; current legal framework of public schools;

permissive and restrictive education codes; student rights; teacher rights; legalities of collective bargaining; legalities related to administration of special education mainstreaming; evolution of case law; pivotal legal points in education; California Education Code. Prerequisite: Meet admission standards for Preliminary Administrative Services Credential Program.

**EDAD 5850 Seminar in School Governance, Politics, and Community Relations (4 units).** To assist the emerging administrator in development of a realistic perspective on the real world of the public schools; interaction with community forces; political agencies; news media; community power groups; minority groups; teacher organizations; parent groups; school-site councils; school boards and policy; district administrators and policy implementation; emerging social groups and related influences; political dynamics of school faculties; cosmopolitans and locals in school-site politics; structuring and maintaining leadership images. Prerequisite: Meet admission standards for Preliminary Administrative Services Credential Program.

**EDAD 5940 Field Work: Administration/Supervision (2 units) + (2 units).** Actual work experience in the field. Joint supervision by district and University personnel. Includes biweekly classroom session. May be repeated for a total of 4 units. Prerequisites: Formal admission to Preliminary Administrative Services Credential Program, nearing completion of program course work, and consent of the instructor. (Formerly EDUC 6941 and EDAD 6941)

### ***Administration: Professional Services Credential***

**EDAD 5890 Individual Assessment – PASC Program (1 unit).** In this course the candidate develops an individualized preparation plan, which prescribes the course work, field experience activities, and other events to be engaged in by the candidate, consistent with the evaluation of the individual based on the use of the Assessment of Progress Instrument. Prerequisite: Completion of Preliminary Administrative Services Credential.\*

**EDAD 5891/5853 Organizational Theory/Practice and Instructional Leadership (5 units):** This course focuses on organizational theory and practice in educational settings and the role and functions of instructional leadership therein. (Includes units for field experience activities) Prerequisite: Completion of Preliminary Administrative Services Credential.\*

**EDAD 5892/5863 Evaluation of Educational Effectiveness and Implementing Staff Development (4 units).** This course focuses on evaluation of the total educational enterprise, with attention given to curriculum and instructional effectiveness, student outcomes, and school/district goals in relation to professional/staff development and the special characteristics and needs of adult learners. (Includes units for field experience activities) Prerequisite: Completion of Preliminary Administrative Services Credential.\*

**EDAD 5893/5873 School Law, Organizational Politics, and Cultural and Socio-Economic Diversity (5 units).** This course focuses on the legal and political aspects of educational organizations in pluralistic settings at the local, state, and national levels. Attention is given to legal frameworks, political jurisdictions, and varying cultural, ethnic, and socio-economic factors which influence education. (Includes units for field experience activities) Prerequisite: Completion of Preliminary Administrative Services Credential.\*

**EDAD 5894/5883 Management of Human, Fiscal, and Materials Resources (5 units).** This course focuses on the management of interrelated human, fiscal, and materials resources within an educational setting. Attention will be given to funding, budgeting, contractual obligations, and policies and procedures for staff and materials needs and utilization. (Includes units for field experience activities) Prerequisite: Completion of Preliminary Administrative Services Credential.\*

**EDAD 5895 Advanced Study in School Administration (4 units).** This course focuses on areas of study and related competencies—identified by the candidate, coordinator, and school district, county office, or other educational agency person—which need to be pursued by the candidate, in addition to those selected from EDAD 5891, EDAD 5892, EDAD 5893, and EDAD 5894, consistent with the candidate's individualized preparation program plan. Prerequisite: Consent of program coordinator.

### **Counseling: Upper Division**

**EDCL 4620 Death Education and Counseling (3 units).** Instructional and counseling practices and trends in death education. Development of awareness and sensitivity to attitudes about death and dealing with grief responses. Recommended for school personnel and other institutional employees. Prerequisite: Consent of education adviser.

### **Counseling: Graduate**

**EDCL 5530 Testing in Education and Counseling (3 units).** Measurement and evaluation in education; statistical aspects of testing; selection and interpretation of unbiased tests with emphasis on achievement, aptitude, interest, vocational and educational tests; effects of cultural and ethnic factors on assessment and achievement. (Formerly EDGS 5530). Prerequisite: Consent of credential adviser.

**EDCL 5540 Counseling Exceptional Children and at-Risk Youth (3 units).** (Formerly EDSE 5540). Working with marginally functioning and at-risk youth within the school population. Includes counseling children with physical, intellectual, social and emotional difficulties. Recognition of adolescent and childhood behavior disorders, intervention techniques, community resources and educational adjustments. Prerequisite: EDCL 5640 and/or consent of instructor or adviser.

**EDCL 5570 Counseling and Guidance in Education (3 units).** Roles, functions, and responsibilities of the school counselor; use of group guidance techniques and consultation; working with community groups and human resource development; theory, practice, and trends. Prerequisite: Consent of education adviser.

**EDCL 5600 Family Counseling and Community Resources (3 units).** Dynamics of relationships of family, community, and school; communitywide services; agency-school relationships; family visiting, including conferences, interviews, and referrals. Prerequisites: EDCL 5640 and/or consent of education adviser.

**EDCL 5610 Educational and Occupational Information (3 units).** Sources of occupational information; community and nationwide surveys; job analyses, procedures for relating vocational and self-information. Emphasis on meeting needs for school counselors in the area of career guidance. Prerequisite: Consent of education adviser.

**EDCL 5630 *Dealing with Differences in Educational Settings (3 units)*.** Recognizing and dealing with racism, sexism, and ageism, also discrimination based on religion, sexual orientation, and learning disabilities. Procedures for helping counselors, administrators, teachers, and their students relate effectively with individuals who differ in various ways. (Formerly 4600) Prerequisite: Admission to a credential program or classroom teaching experience.

**EDCL 5640 *The Counselor (3 units)*.** Focus on the person as counselor, the becoming self of the counselor, personal identity and integrity, and authentic response to role conflict situations. Study and application of counseling theory and techniques within school settings. Prerequisite: Consent of education adviser.

**EDCL 5650 *School Group Guidance and Counseling Techniques (3 units)*.** Using groups for guidance and counseling in the schools; theory and procedures for implementing groups; issues and problems; role and function of school counselors as group leaders. Includes a group laboratory experience. Prerequisite: Consent of education adviser.

**EDCL 5760 *Pupil Personnel Services Seminar (3 units)*.** Current practices in pupil personnel services. Organization and administration of pupil personnel services. Legal principles applied to educational problems, confidentialities, and ethics. Open to practicing personnel and those nearing completion of the pupil personnel services credential program. Prerequisite: Consent of education adviser.

**EDCL 5780 *Consultation and Supervision for School Counselors (3 units)*** Theory, procedures, and practice in consultation and supervision for school counselors. Emphasis on consultation and change, theory, and organizational development. The role of the school counselor as a consultant to teachers, parents, and administrators and as a supervisor for paraprofessionals and counselor trainees. Prerequisites: At least one semester of EDCL 5940 and/or consent of education adviser.

**EDCL 5940 *Field Work: School Counseling (1–6 units)*.** Actual work experience in the field for which student is seeking credential. Joint supervision by district and university. Weekly seminars at beginning and advanced levels. Prerequisites: EDCL 5640 and three of the four following courses: EDCL 5570, 5600, 5630, 5650.

### ***Graduate: Master's Core Classes***

**EDGS 5010 *Education in Society (3 units)*.** Study of social forces influencing the educational process, the curriculum, and institutional and professional roles in American public education. Analysis of characteristics and problems of ethnic groups in school and society. Recommended for in-service elementary and secondary school teachers. Meets the foundations requirement for the Master of Arts degree in Education. Prerequisites: Post-baccalaureate standing, valid teaching experience or other appropriate experience; ultimately subject to consent of instructor.

**EDGS 5040 *Philosophy of Education (3 units)*.** A study of modern philosophies of education and their significance for contemporary educational practices. Recommended for in-service elementary and secondary school teachers. Meets the foundations requirement for the Master of Arts degree in Education. Prerequisites: Post-baccalaureate standing, valid teaching experience or other appropriate experience; ultimately subject to consent of instructor.

**EDGS 5050 *Methods of Research in Education (4 units)***. Application of methods of research to problems in education. Emphasis on research methodology of the social and behavioral sciences. Introduction to parametric and nonparametric statistics and their application to research problems. Prerequisites: Valid teaching credential and three years of successful teaching or other appropriate experience and fully admitted to an MA Program in Education; ultimately subject to consent of instructor.

**EDGS 5060 *Theories of Instruction (3 units)***. Analysis and evaluation of learning and instructional theories as they apply to the classroom and other educational settings. Study of human teaching and learning. Field activity component included. Prerequisites: Valid teaching credential and three years of successful teaching or other appropriate experience and fully admitted to an MA Program in Education; ultimately subject to consent of instructor.

**EDGS 5950 *Selected Topics in Advanced Studies in Education (Topics to be specified in Class Schedule) (1–5 units)*** Development of a selected topic in advanced studies in education. Topics vary each term. Prerequisite: Consent of education adviser.

**EDGS 5960 *Project (1–3 units)***. This enrollment involves individual consultation with members of the student's project committee. May be repeated for a total of 6 units. Prerequisite: Consent of the M.A. adviser.

**EDGS 5980 *Individual Study (1–4 units)***. For graduate classified students in need of advanced and specialized study beyond regularly offered courses and related to the thesis. May be repeated for a total of 6 units. Prerequisites: Complete the appropriate University and Department forms and, at least two weeks prior to the beginning of the term, obtain the following approvals: student's M.A. committee chair, graduate program coordinator, instructor who will monitor the individual study, Chair of the Department of Advanced Studies in Education, and Dean of the School of Education.

**EDGS 5990 *Thesis (1-3 units)***. This enrollment involves individual consultation with members of the student's thesis committee. May be repeated for a total of 6 units. Prerequisite: Consent of M.A. adviser.

### ***Instructional Technology: Upper Division***

**EDIT 4710 *Educational Courseware: Search and Evaluation (3 units)***. Students will learn to identify, examine, and evaluate educational software. Different strategies and principles of courseware development will be examined. The cost of courseware development will be examined. The cost of courseware and hardware will be surveyed. Prerequisite: CS 4000 or equivalent.

**EDIT 4720 *Computer-Assisted Instruction (3 units)***. This course is designed to teach students to prepare interactive computer-assisted instruction (CAI) lessons for microcomputers. The role and applications of CAI in the educational setting will be examined. Hardware, languages, and economics will also be considered. Prerequisites: CS 4000 and EDIT 4710 or equivalents.

**EDIT 4730 *Microcomputers, Curriculum, and Instruction (3 units)***. Examination and development of strategies for integrating microcomputers within the elementary and secondary school, with a focus on the following: educational computer literacy, data-processing and problem solving skills, software evaluation, simple program-

ming and other curricular applications, testing and information storage and retrieval; social, legal, and economic issues and implications of computer technology. (Priority given to students having completed requirements for a preliminary multiple or single subject credential.)

*Note: This course meets the educational computer requirement for the Professional Clear Multiple Subjects Credential and the Professional Clear Single Subject Credential.*

### ***Special Education: Upper Division***

***EDSE 4130 Special Education Strategies for the Classroom Teacher (3 units).*** Planning to teach the mainstreamed special education student in the regular classroom. Individualized diagnostic and prescriptive teaching, counseling, legal aspects, and instructional principles and practices. (Priority given to students having completed requirements for a preliminary multiple or single subject credential.)

*Note: This course meets the "mainstreaming" requirement for the Professional Clear Multiple Subject Credential and the Professional Clear Single Subject Credential. It does not meet requirements for a special education credential.*

***EDSE 4220 Strategies for Teaching the Gifted (2 units).*** Focus on teaching the gifted learner in regular classrooms and special programs. Individualized and creative teaching models based upon modern theory and practice. Includes 20 hours of directed observation/participation. Prerequisite: Consent of education adviser.

***EDSE 4310 Introduction to Special Education Programs (3 units).*** Introduction to school programs and practices for special education students. Includes direct observation/participation and initial experiences with problems of assessment, prescription, and individualized programs. Prerequisites: PSYC 3140 and consent of education adviser.

***EDSE 4330 Assessment and Instruction of Language for Exceptional Pupils (3 units).*** Presentation and analysis of language remediation programs and assessment devices for use by the special educator. Addresses a variety of areas including the instruction of non-vocal exceptional pupils, establishment of instructional control, teaching expressive writing skills, and the presentation of critical language concepts. Prerequisite: EDSE 4310 and consent of education adviser.

### ***Graduate: Special Education***

***EDSE 5410 Guidance for Exceptional Child and Parent (3 units).*** Theory and practice of counseling with focus on the exceptional child's personal family, peer group, and classroom adjustment needs. Includes selected field experiences. Prerequisite: EDSE 4310 and consent of education adviser.

***EDSE 5420 Curriculum and Instruction: Learning and Severely Handicapped (3 units).*** Methods and materials for teaching the learning and severely handicapped. Consideration of trends in theory and practice for self-contained classrooms and resource teachers. Prerequisites: PSYC 4560 and consent of education adviser.

***EDSE 5430 Prescriptive/Individualized Instruction: Learning and Severely Handicapped (3 units).*** Practice in the assessment and in the development and implementation of individualized learning programs. Includes case studies and critiques of the progress of selected handicapped students. Prerequisite: EDSE 4310 and consent of education adviser.

**EDSE 5440 *Teaching the Severely Handicapped (3 units)***. Designed to introduce the student to the severely handicapped population with regard to etiology, instructional procedures, and crucial issues in placement and funding. The emphasis will be on practical applications. Prerequisites: Completion of generic special education course work and consent of education adviser.

**EDSE 5450 *Remedial Techniques and Research for Learning Handicapped (3 units)***. Examination of current procedures utilized to teach the learning handicapped exceptional pupil. Emphasis is placed on the acquisition of specific remediation techniques in a variety of curriculum areas. Prerequisites: Completion of generic special education course work and consent of education adviser.

**EDSE 5947 *Field Work: Learning Handicapped (3 units) + (3 units)***. Actual work experience (teaching) in the field. Supervision by University personnel. Includes placements at elementary and secondary school levels; weekly classroom session. Taken near the end of program. May be repeated for a total of 6 units. Prerequisites: Admission to the Learning Handicapped Specialist Credential Program and consent of program coordinator. (Formerly EDUC 6947 and EDSE 6947)

**EDSE 5948 *Field Work: Severely Handicapped (3 units) + (3 units)***. Actual work experience (teaching) with severely handicapped pupils. Supervision by University personnel. Includes placement with severely emotionally disturbed and/or developmentally delayed individuals; weekly classroom session. Taken near the end of program. May be repeated for a total of 6 units. Prerequisites: Admission to the Severely Handicapped Specialist Credential Program and consent of program coordinator. (Formerly EDUC 6948 and EDSE 6948)

## Physical Education and Health

**Office:** Field House 142, (209) 667-3325  
**Chair:** Martha M. Moren  
**Faculty:** James C. Bowen, Garry R. Bowyer, Richard D. Conant, J. Sue Cook, Zaki I. Habashi (Emeritus), Robert R. Harris, John L. Jones, Kimberly J. Kemp-Duyst, LeAnn J. Millar, Martha M. Moren, William M. Morris, Wayne E. Nelson (Emeritus), Janet Schefkowitz



The Department of Physical Education and Health offers the degree of Bachelor of Arts in Physical Education, a single subject waiver program in Physical Education, an Athletic Training Concentration, a liberal studies concentration, a Coaching Certificate Program, and minors in Physical Education and Recreation (the latter is currently inactive).

Courses provide a background in physical education for those planning to enter the teaching field, an educational foundation for those planning to undertake graduate work, or a program for preprofessional work.

Advice for students:

1. Physical Education majors are encouraged to maintain motor skills and physical fitness by enrolling in one activity skills class and one activity fitness class per semester.
2. Mandatory advising is required of all majors in this degree program. See the department secretary for the name of your assigned adviser.
3. Students interested in obtaining a teaching credential are strongly advised to confer with the Department of Teacher Education program adviser at the beginning of the junior year. An application for admission into the teacher education program is available at the campus bookstore.

## Bachelor of Arts, Physical Education

### Requirements

1. Complete general education requirements for the Bachelor of Arts degree (51 units minimum).
2. Complete the following prerequisites to the major (11 units):
  - a. The following courses are required for physical education majors, and also fulfill general education requirements:
    - BIOL 1010 Principles of Biology (Lec), 3 units, *and*
    - BIOL 1020-1029 Special Laboratory Studies, 1 unit, *or*
    - ZOOL 1050 Introduction to Zoology, 4 units
    - PHED 1000 Physical Education Activity, 1 unit
  - b. Required courses in related fields:
    - ZOOL 2230 Physiology (Lec), 3 units
    - ZOOL 2242 Physiology (Lab), 1 unit
    - ZOOL 2250 Human Anatomy (Lec & lab), 4 units



3. Complete the major of not less than 38 upper-division units; of these no more than eight units of CR-graded course work in courses graded exclusively CR/NC may apply toward the major.
4. Consult with the major adviser during each advising period concerning requirements, changes in curriculum, waivers, etc.
5. Completion of a minor is not required.

### The Major (38 units)

1. **Group One**—Complete the following courses (18 units):  
PHED 3100 Foundations, History & Philosophy of Physical Education, 3 units  
PHED 4100 Curriculum Organization, Administration, and Instruction of Physical Education, 3 units  
PHED 4200 Motor Learning, 3 units  
PHED 4300 Measurement & Evaluation in Physical Education, 3 units  
PHED 4400 Kinesiology, 3 units  
PHED 4500 Physiology of Exercise, 3 units
2. **Group Two**—Complete eight units from the following courses:  
PHED 2100–2135 Sports Officiating, 1 unit each  
PHED 3400 Elementary Physical Education, 3 units  
PHED 3600 Intramural Programs, 2 units  
PHED 3700 Sport in Society, 3 units  
PHED 4800 Adapted Physical Education, 3 units  
HLTH 3000 Prevention & Care of Athletic Injuries, 3 units  
HLTH 3200 School Health & Safety, 2 units  
*Note: Not more than two units may be chosen from PHED 2100–2135.*
3. **Group Three**—Complete four units from the following courses:  
PHED 3200 Theory of Coaching Football, 2 units  
PHED 3210 Theory of Coaching Basketball, 2 units  
PHED 3220 Theory of Coaching Baseball, 2 units  
PHED 3230 Theory of Coaching Track & Field, 2 units  
PHED 3240 Theory of Coaching Volleyball, 2 units  
PHED 3250 Theory of Coaching Softball, 2 units  
PHED 3260 Theory of Strength and Conditioning, 2 units
4. **Group Four**—Complete eight units from the following courses:  
PHED 3300 Theory & Analysis of Aquatic Sports, 2 units  
PHED 3310 Theory & Analysis of Combative Activities, 2 units  
PHED 3320 Theory & Analysis of Dance, 2 units  
PHED 3330 Theory & Analysis of Golf & Archery, 2 units  
PHED 3340 Theory & Analysis of Gymnastics, 2 units  
PHED 3350 Theory & Analysis of Racquet Sports, 2 units  
PHED 3360 Theory & Analysis of Team Sports, 2 units

## Bachelor of Arts, Physical Education, with a Concentration in Athletic Training

### Requirements

1. Complete the requirements for the Bachelor of Arts degree.

2. Complete the prerequisites to the major (13 units).
  - a. The following courses are required for physical education majors, and also fulfill general education requirements:
    - BIOL 1010 Principles of Biology, (Lec), 3 units, *and*
    - BIOL 1020–1029 Special Laboratory Studies, 1 unit, *or*
    - ZOOL 1050 Introduction to Zoology, 4 units
    - PHED 1010-1990 Physical Education Activity, 1 unit
  - b. Required courses in related fields:
    - ZOOL 2230 Physiology (Lec), 3 units
    - ZOOL 2242 Physiology (Lab), 1 unit
    - ZOOL 2250 Human Anatomy (Lec & Lab), 4 units
3. Complete the concentration of not less than 45 upper division units (of these no more than eight units of courses graded exclusively CR/NC may apply toward the concentration).
4. Students interested in obtaining a teaching credential should refer to the catalog section on teaching credentials (Single Subject Waiver Program, Physical Education).
5. Consult with the major adviser during each advising period concerning requirements, changes in curriculum waivers, etc.
6. Completion of a minor is not required.

### The Concentration (45 units)

This option prepares the student to seek certification in Athletic Training from the National Athletic Training Association.

1. Complete the following courses (18 units):
  - PHED 3100 Foundations, History, and Philosophy of Physical Education, 3 units
  - PHED 4100 Curriculum, Organization, Administration and Instruction of Physical Education, 3 units
  - PHED 4200 Motor Learning, 3 units
  - PHED 4300 Measurement and Evaluation in Physical Education, 3 units
  - PHED 4400 Kinesiology, 3 units
  - PHED 4500 Physiology of Exercise, 3 units
2. Complete eight units from the following courses:
  - PHED 3400 Elementary Physical Education, 3 units
  - PHED 3700 Sport in Society, 3 units
  - PHED 4800 Adapted Physical Education, 3 units
3. Complete the following courses (18-19 units):
  - HLTH 2300 Drugs and the Athletic Environment, 1 unit
  - HLTH 3000 Prevention and Care of Athletic Injuries, 3 units
  - HLTH 3030 Cardiovascular Health, Fitness and Exercise, 3 units
  - HLTH 3100 Foods and Nutrition, 3 units
  - HLTH 3300 Advanced Prevention and Care of Athletic Injuries, 3 units
  - PHED 3800 Sport Psychology, 4 units
  - PHED 4940 Fieldwork or Practicum in Physical Education, 1-2 units

## Clinical Experience Requirements

In addition to completing the required academic course work as outlined for the Athletic Training Concentration within Physical Education and Health, students who wish to pursue Certification by the National Athletic Trainers Association must also complete a 1500 hour Supervised Clinical Experience.

This Clinical Experience is gained by working in the Athletic Training Room setting under the supervision of a Certified Athletic Trainer. The student gains experience in the field of Athletic Training by working in the Athletic Training Room and by serving as the Team Trainer for one or more of the CSUS Intercollegiate Athletic teams.

In addition to working in the Training Room, upper division students may have the opportunity to work outside of the University setting in local high schools or clinics. The student will also have the opportunity to work closely with physicians, physical therapists, and other health care providers in order to gain a variety of experiences as they relate to the field and profession of Athletic Training.

Upon completion of the required course work and the Supervised Clinical Experience, the student will be able to take the National Athletic Trainers Association Certification Exam enabling them to become a Certified Athletic Trainer.\*\*

While the pursuit of a Teaching Credential is not a requirement for the Athletic Training Concentration, it is recommended that the student consider this option. Upon completion of the Athletic Training Concentration and the Clinical Experience, a student who possesses a valid Teaching Credential will have a greater opportunity for employment in the secondary school setting.

## Bachelor of Arts, Physical Education, with a Concentration in Recreation (currently inactive)

### Requirements

1. Complete the requirements for the Bachelor of Arts degree.
2. Complete the prerequisites to the major (11 units).
  - a. The following courses are required for physical education majors, and also fulfill general education requirements:
 

BIOL 1010	Principles of Biology, (Lec), 3 units, <i>and</i>
BIOL 1020-1029	Special Laboratory Studies, 1 unit, <i>or</i>
ZOOL 1050	Introduction to Zoology, 4 units
PHED 1000	Physical Education Activity, 1 unit
  - b. Required courses in related fields
 

PSYC 2010	Introduction to Psychology, 3 units
SOCL 1010	Introduction to Sociology, 3 units
3. Complete the major of not less than 38 upper-division units; of these no more than eight units of winter term CR-graded course work may apply toward the major.
4. Consult with the major adviser during each advising period concerning requirements, changes in curriculum, waivers, etc.
5. Completion of a minor is not required.

*Note: This major does not qualify the candidate for admittance to the Credential Program in Physical Education.*

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\*\* First Aid and CPR Certification are required before sitting for the NATA Certification Exam.

**The Major (38 units)**

1. Complete the following courses (15 units):
  - PHED 3100 Foundations, History, and Philosophy of Physical Education, 3 units
  - PHED 3700 Sport in Society, 3 units
  - PHED 4100 Curriculum, Organization, Administration, and Instruction of Physical Education, 3 units
  - PHED 4200 Motor Learning, 3 units
  - PHED 4300 Measurement and Evaluation in Physical Education, 3 units
2. Complete the following courses (10 units):
  - REC 2100 Introduction to Recreation, 1 unit
  - REC 3100 Recreation Leadership Analysis, 3 units
  - REC 3200 Community Recreation, 3 units
  - REC 3300 Recreation Administration, 3 units
3. Complete 8 units from the following courses:
  - PHED 2100-2135 Sports Officiating, 1 unit
  - PHED 3400 Elementary Physical Education, 3 units
  - PHED 3600 Intramural Programs, 2 units
  - PHED 4400 Kinesiology, 3 units
  - PHED 4500 Physiology of Exercise, 3 units
  - PHED 4800 Adapted Physical Education, 3 units
4. Complete 5 units from the following field work courses:
  - REC 4900 Field Work:
    - Pre-School, 1 unit
    - Youth, 1 unit
    - Teens, 1 unit
    - Special Events, 1 unit
    - Sport Directing, 1 unit
    - Aquatics, 1 unit
    - Therapeutic, 2 units
    - Mentally Handicapped, 1 unit
    - Physically Handicapped, 1 unit
    - Administrative Internship, 3 units

**Minor in Physical Education****Requirements (21 units)**

1. Complete HLTH 3000, Prevention and Care of Athletic Injuries, 3 units
2. Complete the following course work from the groups listed above (18 units):
  - Courses from Group One of Major Program, 6 units
  - Courses from Group Two of Major Program, 4 units
  - Courses from Group Three of Major Program, 4 units
  - Courses from Group Four of Major Program, 4 units

*Note: Of the 21 unit total, 16 units must be upper division.*

**Minor in Recreation (currently inactive)****Requirements (23 units)**

1. Complete the following courses (10 units):
  - REC 2100 Introduction to Recreation, 1 unit
  - REC 3100 Recreation Leadership Analysis, 3 units

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- REC 3200 Community Recreation, 3 units
- REC 3300 Recreation Administration, 3 units
- 2. Complete 8 units from the following courses:
  - PHED 2100–2135 Sports Officiating, 1 unit
  - PHED 3400 Elementary Physical Education, 3 units
  - PHED 3600 Intramural Programs, 2 units
  - PHED 4400 Kinesiology, 3 units
  - PHED 4500 Physiology of Exercise, 3 units
  - PHED 4800 Adapted Physical Education, 3 units
- 4. Complete 5 units from the following field work courses:
  - REC 4900 Field Work:
    - Pre-school, 1 unit
    - Youth, 1 unit
    - Teens, 1 unit
    - Special Events, 1 unit
    - Sports Directing, 1 unit
    - Aquatics, 1 unit
    - Therapeutic, 1 unit
    - Mentally Handicapped, 1 unit
    - Physically Handicapped, 1 unit
    - Administrative Internship, 3 units

*Note: Of the 23 unit total, 20 units must be upper-division.*

## Teaching Credentials

Majors in physical education interested in multiple subjects or single subject credentials are referred to the "School of Education, Teacher Education" section of this catalog for a description of teaching credential programs.

### Single Subject Waiver Program, Physical Education (Teacher Preparation & Licensing Law of 1970, Ryan Bill)

Course requirements to meet the Physical Education Single Subject Waiver Program are presented below. Please refer to the "School of Education, Teacher Education" section of this catalog for a description of other requirements.

Before admission to the credential program, students must be cleared for subject-matter competence. The Department of Physical Education and Health will certify students for competence in appropriate subject-matter content when they:

1. Graduate from an approved California Single Subject Waiver Program in Physical Education. Any student transferring from another college or university and applying for the credential program must be evaluated by the Department of Physical Education and Health and complete any courses needed to satisfy the Department's Single Subject Waiver Program.
2. Earn a passing score on the National Teachers Examination (Physical Education) if they are transfer students.
3. Demonstrate competency in skills of subject areas commonly taught in California public schools. These include: dance, sports and games, aquatics, and gymnastics. Competency in skills may be obtained by passing (grade "C" or better) 16 or more units at CSU Stanislaus in theory and analysis and theory of

coaching classes with the instructor approving the skill level. If the instructor does not approve the skill level, the student must take remedial action to improve deficient skills and then pass a skills test.

**4. Appeal Process:**

- a. There is no appeal for 1 and 2.
- b. Students who do not pass a skills test on the second attempt may request a committee of three qualified faculty to administer and score the next test.

### Prerequisites

Complete the following courses (4 units):

- BIOL 1010 Principles of Biology, (Lec), 3 units, *and*  
 BIOL 1020–1029 Special Laboratory Studies, 1 unit, *or*  
 ZOOL 1050 Introduction to Zoology, 4 units

### Required Courses in Related Fields

Complete the following courses in related fields (8 units):

- ZOOL 2230 Physiology (Lec), 3 units  
 ZOOL 2242 Physiology (Lab), 1 unit  
 ZOOL 2250 Human Anatomy, 4 units

### Core Requirements (46 units)

**1. Complete the following course work in core subjects (30 units):**

- a. *Dance (2 units)*  
 PHED 3320 Theory & Analysis of Dance, 2 units
- b. *Basic Movement (15 units)*  
 HLTH 3000 Prevention and Care of Athletic Injuries, 3 units  
 PHED 3400 Elementary Physical Education, 3 units  
 PHED 4200 Motor Learning, 3 units  
 PHED 4400 Kinesiology, 3 units  
 PHED 4800 Adapted Physical Education, 3 units
- c. *Sports and Games (10 units)*  
 PHED 3310 Theory & Analysis of Combative Activities, 2 units  
 PHED 3330 Theory & Analysis of Golf/Archery, *or*  
 PHED 3350 Theory & Analysis of Racquet Sports, 2 units  
 PHED 3360 Theory & Analysis of Team Sports, 2 units

*Two of the following:*

- PHED 3200 Theory of Coaching Football, 2 units  
 PHED 3210 Theory of Coaching Basketball, 2 units  
 PHED 3220 Theory of Coaching Baseball, 2 units  
 PHED 3230 Theory of Coaching Track and Field, 2 units  
 PHED 3240 Theory of Coaching Volleyball, 2 units  
 PHED 3250 Theory of Coaching Softball, 2 units  
 PHED 3260 Theory of Strength and Conditioning, 2 units
- d. *Aquatics (2 units)*  
 PHED 3300 Theory & Analysis of Aquatic Sports, 2 units
  - e. *Gymnastics (2 units)*  
 PHED 3340 Theory & Analysis of Gymnastics, 2 units

*f. Required Supplemental Breadth/Depth Units (15 units)*

PHED 3100	Foundations, History, and Philosophy of Physical Education, 3 units
PHED 3700	Sport in Society, 3 units
PHED 4100	Curriculum, Organization, Administration and Instruction of Physical Education, 3 units
PHED 4300	Measurement and Evaluation in Physical Education, 3 units
PHED 4500	Physiology of Exercise, 3 units

## Coaching Certificate Program

The Department of Physical Education offers a Certificate in Coaching consisting of 20 units. This program is designed for non-physical education majors who are in-service teachers or who plan to enter the teaching profession, and physical education majors who plan on coaching but are not in the waiver program.

### Requirements (20 units)

- Complete the following courses with a minimum GPA of 2.0:
 

PHED 2100–2135	Sports Officiating, 2 units
PHED 3200–3250	Theory of Coaching, <i>and</i>
PHED 3300–3360	Theory and Analysis of Physical Education Activities, 6 units
PHED 3700	Sports in Society, 3 units
PHED 4600	Athletic Administration, 3 units
PHED 4940	Field Work or Practicum in Physical Education, 2 units*
HLTH 3000	Prevention and Care of Athletic Injuries, 3 units

\* Prerequisite junior standing

*Note: Of the 20 unit total, 16 units must be upper division.*

## Liberal Studies Concentration in Physical Education

### Requirements (20 units)

- Complete the following courses (6 units):
 

PHED 3400	Elementary Physical Education, 3 units
PHED 4200	Motor Learning, 3 units
- Complete one course from Group One of the above major program other than PHED 4200 (3 units).
- Complete one course from Group Two of the above major program other than PHED 3400 (3 units).
- Complete three courses from Group Four of the above major program (6 units).
- Complete elective units to total 20 units from groups 1,2,3, or 4.

## Master of Arts, Education with Concentration in Physical Education

*Note: See the "School of Education" section in this catalog for procedures and policies related to this degree.*

## Requirements (31 units)

### 1. Complete the following courses (31 units):

- EDGS 5010 Education in Society, 3 units, *or*
- EDGS 5040 Philosophy of Education, 3 units
- EDGS 5050 Methods of Research in Education, 4 units
- EDGS 5060 Theories of Instruction, 3 units
- EDUC 5770 Seminar: Elementary and Secondary Education, 2 units
- PHED 5010 Seminar in Administration and Supervision of Physical Education and Athletics, 3 units
- PHED 5020 Analysis of Sport Motion, 3 units
- PHED 5030 Sociological and Psychological Implications in Physical Education, 3 units
- PHED 5040 Seminar in Physical Education, 3 units
- PHED 5990 Thesis or Project, 4 units

*Note: Three units of electives may be taken upon advisement.*

## Course Descriptions

### Activity Courses

All activity courses are 1-unit courses, meet two hours per week, have no prerequisites, may be repeated once for credit, and are graded on a CR/NC basis.

Activity courses may be challenged by passing a proficiency test and written examination.

#### *Fitness & Conditioning*

PHED 1010	Backpacking	PHED 1090	Intermediate Karate
PHED 1020	Yoga	PHED 1100	T'ai Chi Ch'uan
PHED 1030	Cycling	PHED 1105	Aikido
PHED 1050	Jogging	PHED 1110	Personal Defense
PHED 1060	Ski Conditioning	PHED 1120	Individualized Fitness
PHED 1070	Judo	PHED 1130	Weight Training
PHED 1080	Karate	PHED 1160	Wrestling
		PHED 1190	Advanced Conditioning*

#### *Individual & Dual Sports*

PHED 1200	Archery	PHED 1380	Advanced Gymnastics
PHED 1220	Advanced Archery	PHED 1400	Handball
PHED 1230	Badminton	PHED 1420	Racquetball
PHED 1250	Advanced Badminton	PHED 1430	Intermediate Racquetball
PHED 1260	Bowling	PHED 1440	Advanced Racquetball
PHED 1280	Advanced Bowling	PHED 1450	Skiing
PHED 1290	Canoeing	PHED 1480	Tennis
PHED 1300	Fencing	PHED 1490	Intermediate Tennis
PHED 1320	Advanced Fencing	PHED 1500	Advanced Tennis
PHED 1330	Golf	PHED 1510	Casting & Angling
PHED 1350	Advanced Golf	PHED 1520	Pickle-ball
PHED 1360	Gymnastics		

#### *Acquatics*

PHED 1610	Swimming	PHED 1630	Advanced Swimming
PHED 1620	Intermediate Swimming	PHED 1640	Life Saving

\* Consent of Instructor Required



**Team Sports**

PHED 1700	Baseball	PHED 1810	Team Handball
PHED 1720	Advanced Baseball	PHED 1820	Soccer
PHED 1740	Basketball (M)	PHED 1840	Advanced Soccer
PHED 1760	Advanced Basketball (M)	PHED 1850	Softball
PHED 1770	Basketball (W)	PHED 1860	Track
PHED 1780	Field Hockey	PHED 1870	Volleyball
PHED 1790	Advanced Basketball (W)	PHED 1880	Intermediate Volleyball
PHED 1800	Advanced Field Hockey	PHED 1890	Advanced Volleyball

**Dance**

PHED 1900	Ballet	PHED 1960	Modern Jazz Dance
PHED 1910	Dance Styles	PHED 1965	Inter Modern Jazz Dance
PHED 1920	Modern Dance	PHED 1970	Folk Dance
PHED 1930	Inter. Modern Dance	PHED 1980	African Dance
PHED 1940	Advanced Modern Dance	PHED 1990	Dance Aerobics
PHED 1950	Social Dance		

**Physical Education****Lower Division**

**PHED 2100–2135 Sports Officiating (1 unit).** The study and interpretation of rules for various sports; procedures, mechanics, and practice in officiating. PHED 2100, Football; PHED 2110, Basketball; PHED 2120, Baseball; PHED 2130, Track and Field; PHED 2135, Volleyball, Softball. (Fall, Spring)

**PHED 2140 Water Safety Instruction (2 units).** Includes emphasis on the performance and teaching of swimming and advanced lifesaving skills. Students achieving a high level of competence will be awarded the Red Cross Water Safety Instructor's Certificate. Prerequisite: Red Cross Advanced Life Saving Certificate.

**PHED 2500–2590 Intercollegiate Athletics (1–2 units).** Theory, practice, and game performance of competitive intercollegiate athletics. Limited to students trying out for the varsity or freshman-junior varsity teams. May be repeated for credit. PHED 2500, Baseball; PHED 2505, Softball; PHED 2510, Basketball (M); PHED 2520, Cross Country; PHED 2525, Cross Country (W); PHED 2530, Golf; PHED 2555, Soccer; PHED 2560, Track and Field; PHED 2565, Track and Field (W); PHED 2570, Volleyball; PHED 2580, Basketball (W). Prerequisite: Consent of instructor. (Fall, Winter, Spring)

**PHED 2950 Selected Topics in Physical Education (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of physical education. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**Upper Division**

**PHED 3100 Foundations, History, and Philosophy of Physical Education (3 units).** Historical factors and forces guiding the development of physical education; objectives of current physical education and its contribution to the full development of man; development of professional understanding and attitude. Philosophical thoughts guiding the development of physical education from ancient to modern times. (Fall, Spring)

**PHED 3200–3250 Theory of Coaching (2 units).** Principles, psychology, and coaching techniques underlying participation in competitive interscholastic athletics. (Lecture, 1 hour; laboratory, 2 hours.) PHED 3200, Football; PHED 3210, Basketball; PHED 3220, Baseball; PHED 3230, Track and Field; PHED 3240, Volleyball; PHED 3250, Softball. Prerequisite: Limited to physical education majors and minors, or consent of instructor. (Fall, Winter, Spring)

**PHED 3260 Theory of Strength and Conditioning (2 units).** The role of strength and conditioning for athletes with the primary emphasis on application for coaches to include weight room management, safety, exercise techniques, program design, and other aspects of a comprehensive training program. Prerequisite: Limited to physical education majors and minors, or consent of instructor.

**PHED 3300–3360 Theory and Analysis of Physical Education Activities (2 units).** Development of fundamental skills and special abilities applicable to specific areas. A study of competencies and knowledge needed for teaching and organization. Rules and field experience in game strategy, tactics, psychological and evaluation techniques. (Two 2-hour laboratories.) PHED 3300, Aquatic Sports; PHED 3310, Combative Activities; PHED 3320, Dance; PHED 3330, Golf/Archery; PHED 3340, Gymnastics; PHED 3350, Racquet Sports; PHED 3360, Team Sports. Prerequisite: Limited to physical education majors and minors or consent of instructor. (Fall, Winter, Spring)

**PHED 3400 Elementary Physical Education (3 units).** The scope and value of physical education and movement education in the elementary school. This course is aimed at developing the full range of each child's abilities, including cognitive skills, ways of finding and using information, perceptual ability, motor skills, social skills, and effective sensitivity. (Fall, Spring)

**PHED 3600 Intramural Programs (2 units).** The organization, administration, and motivation of intramural activities for schools including practical field experience.

**PHED 3700 Sport in Society (3 units).** Introduction to the theoretical study of sport and its relationship to culture and society; investigation and analysis of literature that is concerned with the individual and his/her involvement in play, game, and sport. Emphasis will be on corporate sport and its impact on social institutions and processes. Satisfies upper division writing proficiency requirement. SOCL 1010 is recommended.

**PHED 3750 Women in Sport (3 units).** Introduction to the female's role within the American sport experience. Historical and socio-cultural perspectives which have influenced the involvement of women in a traditionally male sports world will be emphasized. (Same as WMST 3750)

**PHED 3800 Sport Psychology: Concepts and Applications (4 units).** The purpose of this course is to provide students with basic background information about the subject of Sport Psychology. It will examine the behavior of individuals participating in various sports. Its focus is on why sports participants behave the way they do in various sport settings and its scope encompasses the major psychological factors underlying their behavior.

***PHED 4100 Curriculum Organization, Administration and Instruction of Physical Education (3 units).*** An introduction to secondary level physical education curriculum planning, development, and evaluation. Preparation for teaching in physical education in secondary schools. Current trends and practices, instructional materials, methodologies, and techniques. Special attention is devoted to The California Framework for Physical Education. (Fall, Spring)

***PHED 4200 Motor Learning (3 units).*** The application of psychological factors relating to the acquisition or performance of perceptual-motor skills. Emphasis upon the structure and function of the nervous system with specific reference to adaptive motor control. Includes an examination of the neurological integration involved in the maintenance of posture, orientation in space, and patterning of voluntary movement. (Fall)

***PHED 4300 Measurement and Evaluation in Physical Education (3 units).*** A study of practical measurements for evaluation in physical education with emphasis on fitness and sports skills. Prerequisite: Junior standing. (Fall, Spring)

***PHED 4400 Kinesiology (3 units).*** A study of anatomical structure and mechanical principles applied to human movement. Analysis of motor skills related to physical education activities. (Lecture, 2 hours; laboratory, 3 hours.) Prerequisites: ZOOL 2250 and junior standing. PHYS 1500 is recommended. (Fall, Spring)

***PHED 4500 Physiology of Exercise (3 units).*** Study of different body systems and the effects of exercise on each system and physical performance. (Lecture, 2 hours; laboratory, 3 hours.) Prerequisites: ZOOL 2230, 2242, and junior standing. CHEM 1000 is recommended. (Spring)

***PHED 4600 Athletic Administration (3 units).*** Basic problems concerned with management, administration, and organization of interscholastic athletic programs including athletic contest management, athletic finances, and budgets.

***PHED 4800 Adapted Physical Education (3 units).*** The nature of specific handicaps which occur in students, the ways in which physical education activities are modified to meet the movement needs of handicapped students, and the laws of the State of California which have implications for the physical education program for handicapped students. ZOOL 2250 is recommended. (Lecture, 2 hours; laboratory, 3 hours) (Fall)

***PHED 4910 Cooperative Education (2–4 units).*** This course provides an opportunity to acquire relevant, practical experience in supervised, paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisites: Sophomore standing and consent of departmental coordinator.

***PHED 4940 Field Work or Practicum in Physical Education (1–2 units).*** Field work is designed for students interested in gaining experience in a teaching or coaching situation off campus. Practicum is designed for students interested in gaining experience in a teaching or coaching situation on campus. May be repeated for a total of 6 units. Prerequisite: Consent of department chair. (Fall, Winter, Spring)

**PHED 4950 Selected Topics in Physical Education (Topics to be specified in Class Schedule) (1–5 units).** Development of a selected branch of physical education. Topics may vary each term. Different topics may be taken for credit. Prerequisite: Consent of instructor.

**PHED 4980 Individual Study (1–4 units).** For students capable of independent work in need of advanced or specialized study. May be repeated for 6 units. Prerequisite: Consent of department chair. (Fall, Winter, Spring)

## **Graduate**

**PHED 5010 Seminar in Administration and Supervision of Physical Education (3 units).** Examination of background and current trends in the organization, structure, and administrative practice in today's physical education programs including athletics' practices. Focus is also on facilities, budgeting, equipment purchase, and related school law. (Fall)

**PHED 5020 Analysis of Sport Motion (3 units).** Biomechanic and physiologic aspects of exercise analysis. The theoretical basis for studying and prescribing exercise, and the practical application of current knowledge in the field of exercise science. Prerequisites: PHED 4400 and 4500. (Spring)

**PHED 5030 Sociological and Psychological Implications in Physical Education (3 units).** Analysis and application of sociological and psychological data related to participation of the teacher/coach and student/athletic in physical education/athletic programs. Special emphasis on attitudes, values, societal sub-systems, behavioral techniques, and strategies specific to individual and group instruction in physical education. (Fall)

**PHED 5040 Seminar in Physical Education (3 units).** To acquaint students with current problems and to provide students an opportunity to do independent work and intensive study with current problems in the physical education profession. (Spring)

**PHED 5980 Individual Study (1–4 units).** For students capable of independent work in need of advanced and specialized study. May be repeated for a total of 6 units. Prerequisite: Consent of department chair. (Fall, Winter, Spring)

**PHED 5990 Thesis or Project (4 units).** Preparation, completion, and submission of an acceptable thesis (or project) for the Master's degree. (Fall, Winter, Spring)

## **Health**

### **Lower Division**

**HLTH 1000 Health in Today's Society (3 units).** Attention is focused on contemporary health problems and concerns. Typical topics covered are mental and emotional health, sexuality, nutrition, fitness, diseases, consumer education, environmental health, safety, aging, and death and dying. (Fall, Spring)

**HLTH 1200 AIDS Education (3 units).** Study of HIV transmission, AIDS as a chronic and infectious disease, and prevention of infection. Social, behavioral, and civil rights issues also considered.

**HLTH 2300 Drugs and the Athletic Environment (1 unit).** This course will address the drug problem affecting the sports environment. Emphasis will be on drug identification and the medical, abusive, and recreational use of drugs. Consideration will be given to available treatment facilities. (Fall, Spring)

## ***Upper Division***

***HLTH 3000 Prevention and Care of Athletic Injuries (3 units)***. Principles, practices, and legal aspects of conditioning athletes, with emphasis on the prevention and care of athletic injuries, bandaging, therapy, health habits, and protective equipment. Prerequisites: ZOOL 2250 and junior standing or consent of instructor. (Fall, Spring)

***HLTH 3030 Cardiovascular Health, Fitness, and Exercise (3 units)***. The role of exercise in health and fitness, with primary emphasis on the cardiovascular system and the use of exercise in avoiding disease.

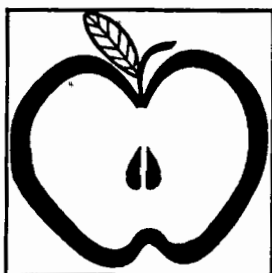
***HLTH 3100 Foods and Nutrition (3 units)***. Selection of foods, health products, and services as basis for healthful living; health and nutritional needs at various ages; research findings and their application.

***HLTH 3200 School Health and Safety (2 units)***. Health knowledge, attitudes, and practices essential to healthful living and wellness with emphasis on exercise, nutrition, and substance abuse. Includes nature and scope of health education as provided in the *Health Instruction Framework* for California Public Schools and application of health issues to students and teachers in K–12 schools. Includes a unit in the "training in, or verification of training on cardiopulmonary resuscitation (CPR) which meets the standards set by the American Health Association or the American Red Cross." This course meets the health and CPR requirements for the Professional Clear Multiple and Single Subject Credentials. (Priority given to students having completed requirements for a preliminary multiple or single subject credential.) (Fall, Spring)

***HLTH 3300 Advanced Care and Prevention and Rehabilitation of Athletic Injuries (3 units)***. Advanced study in athletic training including organization and administration, injury recognition, evaluation, and rehabilitation. Course provides for advanced study in prevention, care, and reconditioning of athletic injuries for students who would like to pursue the field professionally. Emphasis will be placed on developing a theoretical understanding and rationale, practical application, special care prevention, and reconditioning in the administration of an athletic training program. It will also integrate athletic training principles and involve students in application of the principles for various types of athletic injuries. Prerequisite: HLTH 3000.

***HLTH 4910 Cooperative Education (2–4 units)*** This course provides an opportunity to acquire relevant, practical experience in supervised, paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisite: Sophomore standing and consent of departmental coordinator.

***HLTH 4950 Selected Topics in Health (Topics to be specified in class schedule) (1–5 units)***. Development of a specific topic in health. Topics may vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.



## Teacher Education

**Office:** Classroom Building 125, (209) 667-3367

**Chair:** Doni K. Kobus

**Faculty:** Melissa M. Aronson, Dr. James Cole (Emeritus), Joseph W. Corbin\*, Diana Mayer Demetrulias\*, Jane E. Diekman\*, Charles R. Farrar, Juan M. Flores, Joseph J. Galbo\*, Kathleen A. Galbo, Jack A. Graves (Emeritus), Leodoro Hernandez\*, Doni K. Kobus, Elizabeth Papageorge (Emeritus), Nina Ribak-Rosenthal\*, Haig A. Rushdoony\*, Pamela M. Russ, Armin R. Schulz, Priscilla R. Smith (Emeritus), Jonnie K. Shawkey, Lloyd R. Thompson\*, Janet H. Towell, William G. Webster\*, Joan E. Wink, Roy Y. Yasui\*

*Note: Asterisks indicate faculty with joint appointments in the Department of Advanced Studies in Education.*

The Department of Teacher Education offers professional programs to prepare candidates for credentials in elementary and secondary school teaching, bilingual emphasis teaching, and reading. Students interested in a credential program may obtain information from the Department Office or the Credentials Office (C-122A). These professional programs are designed to help students achieve basic competencies essential for effective performance within their teaching specialty. The department also offers an advanced professional program to prepare candidates for the Reading Specialist Credential. All credential programs are approved by the California Commission on Teacher Credentialing and the National Council for Accreditation of Teacher Education. The California State Board of Education and the Commission are empowered to change credential requirements without prior notice. The University will make changes in programs leading to credentials whenever revisions are reported in the *California Code of Regulations*, Title 5, or in other official notifications from the State Board or the Commission.

Also available to qualified students are graduate programs leading to a Master of Arts in Education: Curriculum and Instruction, with a concentration in Elementary Education, Multilingual Education, Physical Education, Reading, or Secondary Education. Students interested in these programs may obtain information from the Department Office or the Graduate Studies Office in the Library Building.

## Teaching Credential Programs

California State University, Stanislaus is authorized to prepare students for two basic teaching credentials. Under the Credentialing Law of 1970 (the Ryan Act), these are the Multiple Subjects Credential (for elementary schools) and the Single Subject Credential (for secondary schools).

**Professional Liability Insurance:** Many off-campus school facilities require that students carry professional liability insurance before entering into field work/student teaching placement. However, the University does not provide professional liability insurance to students. Therefore, it is the responsibility of the student to obtain this type of insurance if the student so wishes.

## **Preliminary Multiple Subjects Credential Turlock Campus and Stockton Center**

**Coordinator:** Pamela Russ

The Department offers a Multiple Subjects Credential Program as a service to people in the University's six-county region. This program is offered on the Turlock campus and at the Stockton Center.

**1. Complete the following courses (27 units):**

- EDMS 3000 Strategies for Designing Lessons, 1 unit
- EDMS 3010 Foundations of Elementary Education, 3 units
- EDMS 3110 Reading/Language Arts: A Holistic Perspective, 5 units
- EDMS 3120 Elementary Curriculum and Instruction: Mathematics, 2 units
- EDMS 3130 Elementary Curriculum and Instruction: Science, 2 units
- EDMS 3140 Elementary Curriculum and Instruction: Social Studies, 2 units
- EDMS 3815 Multiple Subjects Student Teaching I, 5 units
- EDMS 3899 Student Teaching Seminar I, 1 unit
- EDMS 4815 Multiple Subjects Student Teaching II, 5 units
- EDMS 4899 Student Teaching Seminar II, 1 unit

## **Multiple Subjects Credential Program**

### **Prerequisites**

**1. Multiple Subjects Waiver Program**

Each Multiple Subjects Waiver applicant (Liberal Studies Waiver Program at CSU Stanislaus) should be nearing completion of the Liberal Studies course work before applying to the Multiple Subjects Credential Program.

**Other Majors**

If the applicant holds a degree other than a CSU Stanislaus Liberal Studies Waiver Program or other non-CSU Stanislaus approved waiver program major, he/she must have passed or be registered for the Multiple Subjects Assessment for Teachers (MSAT) (Content Knowledge, Content Area Exercises 1, and Content Area Exercises 2) before applying to the Multiple Subjects Credential Program.

**2. CBEST**

Applicants must have passed or be registered to take the California Basic Educational Skills Test (CBEST) before applying to the Multiple Subjects Credential Program. It is highly recommended that this test be taken as early as possible.

**3. English Composition**

Satisfactory completion of an upper-division English composition course (ENGL 3000, 3007, 3009, or equivalent) or applicants who have already completed their degree can substitute a score of 41 or higher on the writing section of the CBEST in place of the composition course.

**4. Government**

Satisfactory completion of a course which includes the study of national government, including the U.S. Constitution (PSCI 1201 or equivalent). If the equivalent of this course was passed by exam the results must be posted on an official transcript.

**5. Child Development**

Satisfactory completion of a course which covers child growth and development (birth to adolescence). PSYC 3140 or equivalent is required.

**6. Field Experience**

Satisfactory completion of a qualitative, supervised early field experience (EDUC 3500 or equivalent). Students with previous experience working in the elementary schools should consult the Early Field Experience Attachment in the MSCP application to determine whether they are eligible to challenge this requirement.

**7. Cross-Cultural Experience**

Evidence of cross-cultural course work (e.g., ETHS 2000, 2100, 4200, SOCL 3250 or similar course work) is highly recommended.

**8. Application**

Satisfactory completion of additional application requirements. The MSCP application, available at the bookstore on the Turlock campus or at the San Joaquin Delta College bookstore in Stockton, contains detailed information about additional requirements, including:

a. Official transcripts

b. Grade point average

c. Certificate of Clearance/fingerprint cards

d. Completed MSCP application folder to the appropriate office within the appropriate date

e. Interview

**9. Acceptance by the MSCP Selection and Review Committee**

The student is admitted to the program for a specific initial enrollment term. A written request for a leave of absence is required to postpone entry. Such a request should be directed to the MSCP Selection and Review Committee and filed in the Department of Teacher Education Office. This request must be filed at least one month prior to the semester for which the student is accepted. The request must be approved by the committee. Failure to comply with this regulation will result in the student's withdrawal from the program. Leaves are granted for one term only.

**Requirements Which Must be Met Prior to Student Teaching**

**1. Grade point average:** In order to enroll in student teaching, the student must have completed the MSCP preliminary credential courses with a minimum GPA of 3.0 and received no grade below a "C."

**2. MSAT/waiver and subject matter competence requirements must be fulfilled.**  
a. The MSAT/waiver requirement is fulfilled through:

1. Completion of the course work required in the CSU Stanislaus Liberal Studies Waiver Program or in another approved non-CSU Stanislaus waiver program *or*

2. Earning a passing score on the Content Knowledge, Content Area Exercise 1, and Content Area Exercise 2 of the Multiple Subjects Assessment for Teachers.



- b.** The subject matter competence requirement is fulfilled through:
- 1.** Earning a grade of at least “C” or credit in all course work used as part of the waiver program *or*
  - 2.** Earning a passing score in each of the three subsections (Content Knowledge, Content Area 1, and Content Area 2) of the Multiple Subjects Assessment for Teachers.

Requirements for both the MSAT/waiver and subject matter competence requirement (*a* and *b* above) *must* be met prior to student teaching and verified by the Liberal Studies Coordinator on the proper form.

### **Recommendation for the Preliminary Credential**

- 1.** The student will be recommended by CSUS for the Preliminary Multiple Credential Subjects Credential upon satisfactory completion of the following:
  - a.** All prerequisites to both the MSC Program and to student teaching (including all special screenings);
  - b.** All CSUS catalog and MSC Program application requirements;
  - c.** All professional MSC Program requirements;
  - d.** Earning a minimum of a “B” average in all professional course work with no grade lower than a “C”; and
  - e.** Satisfactory passing of the California Basic Educational Skills Test.
  - f.** Verification of baccalaureate degree.
- 2.** The preliminary credential is valid for 5 years.

### **Professional Clear Multiple Subjects Credential**

#### **Requirements (30 units)**

- 1.** Complete a 30-unit approved program of postbaccalaureate upper-division/graduate course work. A minimum GPA of 3.0 for educational course work with no grade lower than a “C” and a minimum GPA of 3.0 for all postbaccalaureate course work is required. The 30-unit program must be planned with and approved by the MSCP clear credential adviser in writing. (The applicant is urged to consider course work which applies toward an advanced credential and/or an M.A. degree program. However, such a plan requires consultation with the appropriate advanced credential/M.A. area coordinator.)
- 2.** Within the 30 unit program, the following courses must be completed:

Required Courses:

EDIT 4730 Microcomputers, Curriculum, and Instruction, 3 units  
EDSE 4130 Special Education Strategies for the Classroom Teacher, 3 units  
HLTH 3200 School Health, 2 units

Select two of the following:

EDMS 4120 Diagnostic Techniques of Teaching, 3 units  
EDMS 4840 Analysis and Strategies of Teaching, 3 units  
EDUC 4860 Multicultural and Global Education, 3 units  
EDUC 5200 Classroom Management and Discipline, 3 units  
EDBL 5000 Multilingual in the Content Areas K-12, 3 units  
EDBL 5001 Multilingual Education Evaluation, 3 units  
EDRG 4150 Reading: Literature Based Instruction for Children, 3 units
- 3.** Verification of having met the CPR requirement through course work or a current CPR card.

4. Students seeking a professional clear credential who have received their initial teaching credential from another university in California or from a university in another state should contact the department office to be directed to an adviser.

All requirements are subject to change based on CTC requirements, Chancellor's Office mandates, and Department of Teacher Education policies. In addition, courses which are more than seven years old will generally not be accepted to fill professional clear credential requirements:

## **Multiple Subjects Credential Program: Bilingual/Cross Cultural Emphasis (Elementary School Teaching)—Turlock Campus**

**Coordinator:** Leodoro Hernandez

The liberal studies degree program with the bilingual/cross-cultural concentration is recommended for students seeking admission to the Multiple Subjects Credential Program with a bilingual/cross-cultural emphasis. (See the "Liberal Studies, Bilingual/Cross-Cultural" section of this catalog.)

Only students who are literate in both English and Spanish are currently admitted, contingent upon successful screening for language skills, cultural knowledge, and teaching aptitude. Also, EDBL 4200 is required for admission to the program. Spanish or other majors are also acceptable, but the student and adviser must select elective courses to prepare for required language proficiency and cultural knowledge tests, as well as file the state-required Multiple Subjects Assessment for Teachers (MSAT). Other requirements for entry into this program are listed previously under the section "Multiple Subjects Credential Program." For current pre-admission requirements, contact the coordinator.

### **Requirements (26 units)**

1. Complete the following courses during the first semester (14 units):
  - EDBL 3010 Foundations of Elementary Education: Bilingual, 3 units
  - EDBL 3110 Elementary Curriculum and Instruction, Bilingual: Language Arts, 2 units
  - EDBL 3120 Elementary Curriculum and Instruction, Bilingual: Mathematics, 2 units
  - EDBL 3130 Elementary Curriculum and Instruction, Bilingual: Science, 2 units
  - EDBL 3140 Elementary Curriculum and Instruction, Bilingual: Social Studies, 2 units
  - EDRG 3251 Reading Instruction in Elementary School: Bilingual/Cross-Cultural, 3 units
2. Complete the following courses during the second semester (12 units):
  - EDBL 4810 Multiple Subjects Student Teaching, Bilingual, 5 units
  - EDMS 3815 Multiple Subjects Student Teaching I, 5 units
  - EDBL 3899 Student Teaching Seminar, Bilingual I, 1 unit
  - EDBL 4899 Student Teaching Seminar, Bilingual II, 1 unit

**Note:** *The requirements for the clear multiple subjects credential are outlined previously in the section for the "Multiple Subjects Credential Program."*

## Single Subject Credential Program

Coordinator: Jane E. Dickman

### Requirements (27 units)

1. Complete the following courses during the first semester (13 units):  
EDRG 3470 Reading Instruction in the Secondary School, 3 units  
EDSS 4150 Effective Teaching in the Secondary School I, 2 units  
EDSS 4180 Single Subject Instruction I, 2 units  
EDSS 4850 Field Practicum: Secondary Education I, 6 units
2. Complete the following course during Winter Term (4 units):  
EDSS 4160 Effective Teaching in the Secondary School II, 4 units  
*Note: EDSS 4160 includes practicum experience.*
3. Complete the following courses during the second semester (10 units):  
EDSS 4170 Effective Teaching in the Secondary School III, 2 units  
EDSS 4190 Single Subject Instruction II, 2 units  
EDSS 4855 Field Practicum: Secondary Education II, 6 units

### Admission Requirements

1. An application packet for admission to the Single Subject Credential Program may be purchased at the bookstore on the University campus. Admission criteria are those in the catalog effective during the year of application and acceptance. The application folder must be completed and submitted early in the semester preceding admission to the program. See application packet for specific date.
2. Minimal GPA requirements for admission are explained in the Single Subject Credential Program application packet. Requests for exceptions to GPA criteria must be made in writing to the Single Subject Credential Program Selection and Review Committee. Grading in the program is credit/no credit. A credit grade is equivalent to a "B" grade. A "B" average must be maintained in credential program courses with no grade lower than a "C." (See the application packet for details.)
3. Students must have applied to take the state basic proficiency examination (CBEST) before applying for admission. The test must be passed before enrollment in EDSS 4850.
4. Students must file a Certificate of Clearance form when they apply for the program.
5. The student is admitted to the program for a specific initial enrollment term. A written request for a leave of absence is required to postpone entry. Such a request should be directed to the SSCP Selection and Review Committee and filed in the Department of Teacher Education Office. The request must be approved by the Committee. Failure to comply with this regulation will result in the student's withdrawal from the program.

### Academic Requirements

1. Complete one of the following single subject waiver programs or earn a passing score on the NTE Specialty Area Examination for the selected subject-matter area and CAPA exam as required. Obtain waiver program advisement from the appropriate academic departments listed as follows:

Single Subject Waiver Program	Academic Department
Art	Art
English	Drama
	English
	Speech Communication
Modern Languages	French
	German
	Spanish
Government	Political Science
History	History
Life Science	Biological Sciences
Mathematics	Mathematics
Music	Music
Physical Education	Physical Education
Physical Sciences	Physical Science
	Chemistry
Social Sciences	Social Sciences

*Note: The University does not offer waiver programs in agriculture, business, home economics, or industrial arts, but students who have completed approved waiver programs elsewhere or passed the NTE in these subject areas may apply to the program.*

2. Complete the Graduation Writing Requirement, *or* a verified score of 41 on the writing portion of CBEST.
3. Complete PSCI 1201 *or* an equivalent course which fulfills the U.S. Constitution requirement to qualify for a teaching credential.
4. Submit verification of subject-matter competence before beginning the program and enrolling in EDSS 4150. Students who meet subject-matter requirements through the waiver program or NTE must have subject-matter competence determined by the appropriate academic department at CSU Stanislaus.

*Note: This requirement is in addition to that described in #1 above.*

## Academic Recommendations

Cross-cultural and special education course work is strongly recommended.

## Pre-Professional Program Requirements

1. Complete EDUC 3500 Early Field Experience *or* an equivalent course as approved by the coordinator. Requirement must be completed prior to starting the program.
2. Complete PSYC 3240 Human Development II: Adolescence *or* an equivalent course as approved by the coordinator. Requirement must be completed prior to the end of the program.

## Professional Program

The Single Subject Credential Program is field-centered and performance-based. It integrates theory and practice by providing an ongoing experience within a school setting which focuses on the attainment of the knowledge and skills characteristic of effective teaching. Students are at a center daily from 8:00 A.M. until the end of the public school day for an entire academic year.

## Professional Recommendations

1. Develop a program leading toward a second teaching major or supplementary authorization to enhance employability.
2. Take additional course work to prepare for teaching in a multicultural society.

## Requirements for the Professional Clear Single Subject Credential

Adviser: Jane E. Dickman

### Requirements (30 units)

1. To be recommended for a professional clear credential, the applicant must complete a 30-unit approved program of postbaccalaureate upper-division/graduate course work with a minimum GPA of 3.00, including at least 18 units of resident course work preferred of which 12 units relate to single subject teaching. The 30-unit program must be planned with and approved by the single subject clear credential adviser. (The applicant is urged to consider course work which applies toward an advanced credential and/or an M.A. degree program. However, such a plan requires consultation with the appropriate advanced credential/M.A. area coordinator.)
2. The following additional courses are required to obtain a clear credential:
  - EDIT 4730 Microcomputers, Curriculum, and Instruction, 3 units
  - EDSE 4130 Special Education Strategies for the Classroom Teacher, 3 units
  - HLTH 3200 School Health and Safety, 2 units
3. Verification of having met the CPR requirement through course work or the appropriate current CPR card.
4. Students applying for their Preliminary Credentials *prior* to January 1, 1993 must complete *one* of the following courses. Students applying for their Preliminary Credentials *after* January 1, 1993 must complete *two* of the following courses:
  - EDSS 4500 Teaching Today's Adolescents, 3 units
  - EDSS 4845 Analysis and Strategies of Teaching in the Secondary School, 3 units
  - EDUC 4860 Multicultural and Global Education, 3 units
5. Students seeking a clear credential who have received their initial teaching credential from a university in another state should consult the department chair for advising.
6. In addition, courses which are more than seven years old generally will not be accepted to fill professional clear credential requirements.

## Reading/Language Arts Specialist Credential

Coordinator: Janet H. Towell

The Reading/Language Arts Specialist Credential may be completed independent of or in conjunction with the Master of Arts degree. Courses are scheduled in the late afternoon and evening to enable employed individuals to attend.

## Prerequisites

To be considered for admission to this advanced credential program only, the applicant must:

1. Possess a baccalaureate degree.
2. Have earned at least a 3.0 GPA in the last 60 units attempted.
3. Possess a valid teaching credential.
4. Have at least one year of teaching experience in reading in any grade K–12.
5. Have completed EDRG 3250, EDMS 3110, or EDRG 3470.

## Requirements (27 units)

*Note: These requirements are associated with the Reading/Language Arts Specialist Credential Program. Some courses are also included in the Master of Arts degree in Reading.*

1. Complete the following courses (27 units):
  - EDRG 4100 Reading and Language Arts Instruction: K-12, 3 units
  - EDRG 4150 Reading: Literature-based Instruction for Children, 3 units
  - ENGL 4630 Adolescent Literature, 3 units
  - EDML 5000 Multilingual Education in the Content Area, 3 units
  - EDRG 5250 Reading and Language Arts: Assessment and Evaluation, 3 units
  - EDRG 5350 Reading and Language Arts: Research and Trends, 3 units
  - EDUC 5400 Teachers as Change Agents: Researchers and Writers, 3 units
  - EDRG 5910 Practicum in Reading and Language Arts, 3 units
 An appropriate three-unit elective course selected in consultation with adviser

*Note: Other appropriate courses may be selected after consultation with the major adviser.*

## Application Procedures

To apply for admission and become fully admitted to the advanced credential program only, the applicant must:

1. Complete the University admission form and file it with the Admissions Office in the Library Building (L-110).
2. Submit transcripts to the Admissions Office including at least the last 60 units of college/university course work.
3. Submit letters of recommendation to the Reading Credential Program Coordinator (check with the advanced credential program coordinator for the exact number required).
4. Submit test scores (e.g., CBEST), as required by the advanced credential program, to the Reading Credential Program Coordinator.
5. Submit proof of valid teaching credential to the Reading Credential Program Coordinator.
6. Participate in an interview and have the program file evaluated by the Reading/Language Arts Specialist Credential Program Advisory Committee.

*Note: Before beginning the above procedures, a conference with the program coordinator is required.*

## Admission Classifications

The student seeking an advanced credential only may be placed in one of two classifications:

1. **Postbaccalaureate Standing: Unclassified.** (Permits one to enroll in classes as specified by M.A. area coordinator.) To be admitted to Postbaccalaureate Standing: Unclassified, the applicant must:
  - a. Complete the University Admission form.
  - b. Meet CSU Stanislaus admission requirements.
2. **Graduate Standing: Classified** (Admission to the M.A. program is granted.) To move to Graduate Standing: Classified, the applicant must:
  - a. Submit transcripts of college/university course work, to include at least the last 60 units.
  - b. Submit letters of recommendation.
  - c. Submit passing CBEST and other test scores as required.
  - d. Submit proof of valid teaching credential.
  - e. Complete at least eight units of advanced program course work with at least a 3.0 GPA.
  - f. Participate in an interview; have the program file evaluated by a credential program committee.

*Note:* Obtain more detailed information from the coordinator of the program.

## Grade Requirements

It is expected that the student seeking an advanced credential will maintain a GPA of 3.0 while in the program. Minimum acceptable grade for a credential course is a "C."

## Final Requirements

To obtain the required recommendation for the advanced credential from CSU Stanislaus, the student must:

1. Complete all of the course work required in the advanced credential program.
2. Achieve the competency in the knowledge and skill areas of the program.
3. Submit a minimum overall GPA of 3.0 for all course work required for the credential.
4. Pass an oral exit examination on the knowledge of reading during the last semester of course work.
5. Submit a completed application form for the credential, along with a receipt which verifies that fees have been paid, to the Credentials Office, C-122A. (See the Credentials secretary shortly after midterm of the final semester in the program for assistance in completing the application process for the credential.)

## Graduate Studies in the Department

The Department of Teacher Education offers a Master of Arts degree in Education with an emphasis in one of these areas: Curriculum and Instruction, Elementary, Multilingual Education, Physical Education (through the Department of Physical Education), Reading, and Secondary. Students interested in graduate degree programs may obtain information from the Department Office in the Classroom Building (C-125) or the Graduate Studies Office in the Library Building. Prerequisites, procedures, and requirements for the M.A. degree are described below. Also included is general information relevant to graduate studies. Reading, and the Reading Specialist Credential Program are under revision. Contact Janet H. Towell, RSCP Coordinator, or Armin Schulz, MA Coordinator, for details at (209) 667-3367.

## Master of Arts Degree

**Coordinator:** Dr. Armin Schulz (for all MA concentrations)

M.A. Area	Professor (Advisers)	Phone
Elementary Education	A. Schulz	(209) 667-3368
Multilingual Education	J. Wink	(209) 667-3471
Physical Education	M. Moren	(209) 667-3325
Reading	J. Towell	(209) 667-3292
Secondary Education	J. Galbo	(209) 667-3367

### Prerequisites for Admission

1. A baccalaureate degree.
2. A total score of at least 100 using the following formula for grade point average (GPA), based on the last 60 units of college/university work, and the Miller's Analogies Test (MAT score:  $GPA \times 20 + MAT \text{ score} = \text{total score}$ ). For example, a student with a GPA of 3.0 and a MAT score of 40 would qualify for admission with a total score of 100 ( $3.0 \times 20 + 40 = 100$ ).

### Application Procedures

1. Complete the University admission form and file it with the Admissions Office in the Library Building (L-110).
2. Submit transcripts to the Admissions Office, including at least the last 60 units of college/university degree course work.
3. Submit two letters of recommendation, which discuss the applicant's potential for graduate-level study, to the Graduate Studies Office in the Library Building (L-145).
4. Submit MAT or GRE score to the Graduate Studies Office.

*Note:* For MAT information and testing procedures, contact the Testing Office on campus in IC-1; (209) 667-3157.

### Admission Classifications

Students applying for the M.A. program will be placed in one of two classifications:

1. **Postbaccalaureate Standing: Unclassified** (Permits students to enroll in classes as specified by M.A. area coordinator.) To be admitted to Postbaccalaureate Standing: Unclassified, the applicant must:
  - a. Complete the University admission form.
  - b. Meet CSU Stanislaus admission requirements.
2. **Graduate Standing: Classified** (Admission to the M.A. program is granted.) To move to Graduate Standing: Classified, the applicant must:
  - a. Submit letters of recommendation as required by the program.
  - b. Submit Miller Analogies Test score.
  - c. Complete at least nine units of M.A. Education course work in residence with at least a 3.0 GPA.
  - d. Recommendations will be obtained from at least three faculty members with whom the student has studied in M.A. Education courses (this will be facilitated by the coordinator).
  - e. Fulfill writing competence by submitting a score of at least 41 on the writing section of CBEST.
  - f. All course work must be completed within seven years.



**Note:** *Prior to being admitted to the program, international applicants whose native language is not English must demonstrate proficiency in English by completing the Test of English as a Foreign Language (TOEFL) with a total score of at least 550 and with part scores of at least 54.*

## Common Course Work Requirements

1. **Foundations** Complete one of the following courses depending on the specific M.A. area of emphasis (3 units.):
  - EDGS 5010 Education in Society, 3 units, *or*
  - EDGS 5040 Philosophy of Education, 3 units
2. **Common studies** Complete the following courses (7 units):
  - EDGS 5050 Methods of Research in Education, 4 units
  - EDGS 5060 Theories of Instruction, 3 units
3. **Project/Thesis** Complete the following:
  - EDUC 5960 Project, 1–3 units, *or*
  - EDUC 5990 Thesis, 1–3 units, *and*

*Note: May be repeated for a total of 4–6 units.*

  - EDUC 5770 Seminar in Elementary and Secondary Education, 2 units

## Curriculum and Instruction: Elementary and Secondary

### Concentration Requirements (32 units)

**Note:** *Also refer to Common Course Work requirements (see above).*

1. Select and complete the following required courses:
  - a. **Curriculum and Instruction Emphasis (5 units)**
    - EDMS 4840 Analysis and Strategies of Teaching: Elementary, 3 units, *or*
    - EDMS 4845 Analysis and Strategies of Teaching: Secondary, 3 units,
  - b. **Concentration Emphasis: Skills (3 units)**
    - EDML 5001 Multilingual Education Evaluation, 3 units
    - EDUC 5200 Classroom Management and Discipline, 3 units
    - EDUC 5880 Improving Instructional Skills in a Cultural Context, 3 units
    - EDUC 5885 Instructional Programs to Enhance Thinking Skills, 3 units
  - c. **Concentration Emphasis: Reading (2-3 units)**
    - EDML 5000 Multilingual Education in the Content Area, 3 units
    - EDRG 4100 Improving Reading: K-12, 2 units
    - EDRG 4150 Reading: Literature-based Instruction for Children, 3 units
    - EDRG 4240 Reading Instruction: Primary Grades, 2 units
    - EDRG 4250 Reading Instruction: Intermediate Grade, 2 units
  - d. **Concentration Emphasis: Research and Trends (3 units)**
    - EDBL 4200 Teaching the Culturally Different, 3 units
    - EDRG 5350 Research and Trends in Reading and Language Arts, 3 units

- EDUC 4860 Multicultural and Global Education, 3 units
- EDUC 5330 Research and Trends in Mathematics, Science, and Social Studies, 3 units
- EDUC 5340 Research and Trends in Curriculum, 3 units

**e. Electives (3-7 units)**

4000 or 5000 level Education course(s) selected in consultation with an adviser.

## Curriculum and Instruction: Multilingual Education

The Department of Teacher Education offers a Master of Arts degree in Education with an emphasis in Multilingual Education. The Language Development Specialist certificate may be completed independent of or in conjunction with the Master of Arts degree. Courses are scheduled in the last afternoon and evening to enable employed individuals to attend.

### Concentration Requirements (32 units)

*Note: Also refer to Common Course Work requirements on the previous page.*

**1. Complete the concentration (18 units):**

**a. Theoretical Foundations**

- EDML 5200 Advanced Theory in Teaching the Culturally Diverse Student, 3 units
- EDML 5400 Theory of Multilingual Education, 3 units, *or*
- ENGL 4800 Second Language Acquisition, 3 units,

**b. Methods**

- EDML 5000 Multilingual Education in the Content Area, 3 units
- EDML 5001 Multilingual Education Evaluation, 3 units
- EDML 5420 Language Arts: Acquisition to Composition, 3 units, *or*
- ENGL 4615 TESOL Methods, 3 units

**2. Select and complete one of the following electives (3 units):**

- EDML 5940 Field Work: Multilingual Education, 3 units, *or*
- EDUC 4860 Multicultural and Global Education, 3 units

*Note: Other appropriate courses may be selected after consultation with the major adviser.*

## Curriculum and Instruction: Reading

### Concentration Requirements (34 units)

*Note: Also refer to Common Course Work requirements on the previous page.*

**1. Select and complete the following required courses:**

**a. Theoretical Foundations (9 units)**

- EDRG 4100 Reading/ Language Arts Instruction: K-12, 3 units, *or*
- EDRG 4150 Reading: Literature-based Instruction for Children, 3 units
- EDRG 5350 Reading and Language Arts: Research and Trends, 3 units
- EDUC 5400 Teachers as Change Agents: Researchers and Writers, 3 units

**b. Methods (9 units)**

EDML 5000 Multilingual Education in the Content Area, 3 units

EDRG 5250 Reading and Language Arts: Assessment and Evaluation, 3 units

EDRG 5910 Practicum in Reading and Language Arts, 3 units

**Note:** *Other appropriate courses may be selected after consultation with the major adviser.*

### **Other Requirements**

In general, more than nine semester units of course work completed in Postbaccalaureate Standing: Unclassified may be applied to a master's degree.

The total number of units, as well as specific courses required, vary with each area of emphasis of the M.A. in Education. (See the relevant coordinator for requirements.) A total of 6 units may be transferred from accredited graduate schools in the U.S. or abroad.

### **Grade Requirements**

The minimum academic grade point average for earning the M.A. degree is 3.0. The minimum acceptable grade for courses included in the M.A. program is a "C."

### **Final Requirements**

The M.A. in Education degree requires the successful completion of all course work, approval of a written project or thesis, and passing of an oral examination. At least 15 semester units must be completed as a student in Graduate Standing: Classified. After all requirements have been met, the student will be awarded the M.A. degree.

### **Course Descriptions**

#### ***Bilingual/Cross-Cultural: Upper Division***

***EDBL 3010 Foundations of Elementary Education: Bilingual (3 units).*** Study of selected sociological and psychological based knowledge, skills, and understandings related to teaching in the elementary schools. Emphasis on bilingual issues and concerns. Prerequisites: Admission to the Multiple Subjects Credential Program BL/CC and permission of the MSCP BL/CC coordinator.

***EDBL 3110 Elementary Curriculum and Instruction, Bilingual: Language Arts (2 units).*** Introduction to the skills, concepts, and applications required for bilingual multiple subjects teaching in language arts. Planning, demonstration, and materials based upon modern trends and techniques. Prerequisite: Admission to the Multiple Subjects Credential Program BL/CC.

***EDBL 3120 Elementary Curriculum and Instruction, Bilingual: Mathematics (2 units).*** Introduction to the skills, concepts, and applications required for bilingual multiple subjects teaching in mathematics. Planning, demonstration, and materials based upon modern trends and techniques. Prerequisite: Admission to the Multiple Subjects Credential Program BL/CC.

**EDBL 3130 Elementary Curriculum and Instruction, Bilingual: Science (2 units).** Introduction to the skills, concepts, and applications required for bilingual multiple subjects teaching in science. Planning, demonstration, and materials based upon modern trends and techniques. Prerequisite: Admission to the Multiple Subjects Credential Program BL/CC.

**EDBL 3140 Elementary Curriculum and Instruction, Bilingual: Social Studies (2 units).** Introduction to the skills, concepts, and applications required for bilingual multiple subjects teaching in social studies. Planning, demonstration, and materials based upon modern trends and techniques. Prerequisite: Admission to the Multiple Subjects Credential Program BL/CC.

**EDBL 3899 Student Teaching Seminar BL I (1 unit).** The first of two required student teaching seminars. Concurrent enrollment in EDMS 3815 is required. Taken concurrently with student teaching, but is graded separately. Prerequisites: EDBL 3010, 3120, 3130, 3140, and EDRG 2151; 3.00 GPA in program and no grade lower than a C; verification of subject matter competence, and permission of instructor.

**EDBL 4200 Teaching the Culturally Different (3 units).** Principles of adapting school instructional materials and programs to the particular needs and interests of children of minority ethnic groups. Identification of suggested teaching competencies. Includes selected field experiences. Prerequisite: Upper-division standing.

**EDBL 4430 Cross-Cultural Techniques for Teachers (3 units).** Exploring the concept of culture and of cultural pluralism in education. Specific approaches to finding out about ethnic groups within the community and for implementing a culturally pluralistic classroom. Prerequisites: Teaching experience and consent of education adviser.

**EDBL 4810 Multiple Subjects Student Teaching: Bilingual (5 units).** Supervised observation, participation, and student teaching in a public multiple subjects bilingual classroom setting. Includes a scheduled on-campus seminar meeting dealing with professional ethics, special activities, use of audio/visual equipment, and student teaching problems. Prerequisite: EDMS 3815.

**EDBL 4899 Student Teaching Seminar BL II (1 unit).** The second of two required student teaching seminars. Concurrent enrollment in EDBL 4810 is required. Taken concurrently with student teaching, but is graded separately. Prerequisites: EDBL 3010, 3120, 3130, 3140, and EDRG 3151; 3.00 GPA in program and no grade lower than a C; verification of subject matter competence, and permission of instructor.

### **Multilingual Education: Graduate**

**EDML 5000 Multilingual Education in the Content Area (3 units).** The course is designed to provide an overview of theory and methodologies in English language development in the content areas for K-12 schools.

**EDML 5001 Multilingual Education Evaluation (3 units).** This course is designed to teach the theory and practice of effective first and second language assessment. Special emphasis will be placed on the California state mandated instruments and guidelines for language assessment of limited English proficient students. Instruments which assess adult ESL will also be part of the curriculum.

***EDML 5200 Advanced Theories in Teaching the Culturally Diverse Student (3 units)***. The course focuses on advanced theories of learning and teaching styles of the culturally diverse students. Identification of suggested teaching proficiencies for the multicultural classroom. This course will emphasize curriculum development for culturally diverse students.

***EDML 5400 Theory of Multilingual Education (3 units)***. This course will focus on (1) cross-cultural language and academic development, (2) the role of multilingual education in American public schools, and (3) the implementation of various program models.

***EDML 5420 Language Arts: Acquisition to Composition (3 units)***. This course provides teachers with a knowledge base for designing, implementing, and assessing language acquisition and development programs and methodologies for the language minority student in the K-12 setting.

***EDML 5940 Field Work: Multilingual Education (3 units)***. This course will provide a field experience for teachers in a multilingual setting in K-12. The use of theory and practice related to teaching the content areas will be emphasized.

### ***Multiple Subjects: Upper Division***

***EDMS 3000 Strategies for Designing Lessons (1 unit)***. This course is designed to focus pre-service teachers on the development of lesson plans. The students will study the elements of lesson preparation, active participation techniques, learning objectives, essential components of a teaching plan, and lesson analysis. Prerequisite: Acceptance into the Multiple Subjects Credential Program or by permission of instructor.

***EDMS 3010 Foundations of Elementary Education (3 units)***. Study of selected sociological and psychological, multi-cultural, historical, and legal based knowledge, skills, and understandings related to teaching in the elementary schools. Prerequisite: Admission to the Multiple Subjects Credential Program.

***EDMS 3110 Reading/Language Arts: A Holistic Perspective (5 units)***. Introduction to the principles and practices for reading/language arts instruction in grades K-6, with an emphasis on the four communication skills; a holistic approach to literature-based instruction which meets the needs of diverse populations. (Combined and re-configured from EDMS 3110 and EDRG 3250.) Prerequisite: Admission to the Multiple Subjects Credential Program.

***EDMS 3120 Elementary Curriculum and Instruction: Mathematics (2 units)***. Introduction to the materials and methods used in the teaching of mathematics in grades K-8. Emphasis is on instructional planning, concept development and the use of manipulatives for instruction as outlined in the California Mathematics Framework. Prerequisite: Admission to the Multiple Subjects Credential Program.

***EDMS 3130 Elementary Curriculum and Instruction: Science (2 units)***. This course provides an introduction to teaching methodology as it relates to science in grades K-9. Course topics include teaching strategies, lesson design, instructional planning, and the selection of science materials and resources. Prerequisite: Admission to the Multiple Subjects Credential Program.

**EDMS 3140 Elementary Curriculum and Instruction: Social Studies (2 units).** Introduction to the purpose and content of the social studies in grades K–8, including the teaching of concepts, skills, values, and attitudes which promote citizenship in democracies in our global community. The focus will be on instructional planning derived from current issues, understandings, and approaches with emphasis on the learning needs of linguistically and culturally diverse students. Prerequisite: Admission to the Multiple Subjects Credential Program.

**EDMS 3815 Multiple Subjects Student Teaching I (5 units).** Supervised observation, participation, and student teaching in public school settings. Concurrent enrollment in EDMS 3899 required. Prerequisites: EDMS 3010, 3110, 3120, 3130, 3140, and EDRG 3250; 3.00 GPA in program course work and no grade lower than a “C”; subject-matter competence verified.

**EDMS 3899 Student Teaching Seminar I (1 unit).** The first of two required student teaching seminars. Concurrent enrollment in EDMS 3815 required. Complements student teaching but is graded separately. Prerequisites: EDMS 3010, 3110, 3120, 3130, 3140, and EDRG 3250; 3.00 GPA in program course work and no grade lower than a “C”; subject-matter competence verified.

**EDMS 4120 Diagnostic Techniques of Teaching (3 units).** Methods of diagnosing student difficulties and prescribing remediation in terms of curriculum and instruction; performance-based instruction evaluation. Prerequisites: Completion of student teaching and consent of education adviser.

*Note: This course meets a requirement for the Professional Clear Multiple Subjects Credential.*

**EDMS 4815 Multiple Subjects Student Teaching II (5 units).** Supervised observation, participation, and student teaching in public elementary school settings. Concurrent enrollment in EDMS 4899 is required. Prerequisites: EDMS 3815 and 3899.

**EDMS 4840 Analysis and Strategies of Teaching (3 units).** Analytical methods used to study the elementary school instructional process. Models and strategies for effective instruction are emphasized. Prerequisites: Completion of student teaching.

*Note: This course meets a requirement for the Professional Clear Multiple Subjects Credential.*

**EDMS 4899 Student Teaching Seminar II (1 unit).** The second of two required student teaching seminars. Concurrent enrollment in EDMS 4815 is required. Complements student teaching but is graded separately. Prerequisites: EDMS 3815 and 3899.

### **Reading: Upper Division**

**EDRG 3251 Reading Instruction in the Elementary School: Bilingual/Cross-Cultural (3 units).** Designed to teach the theory and practice of effective bilingual reading instruction in the elementary grades. Spanish is the target minority language for this class. However, other primary languages will be included in all activities. Prerequisite: Admission to the Multiple Subjects Credential Program BL/CC.

**EDRG 3470 Reading Instruction in the Secondary School (3 units).** Selection and organization of materials; instructional procedures for developmental reading programs 7-12; reading and the content subjects; analysis of research concerning reading needs; field practicum. Prerequisites: Admission to the Single Subject Credential Program and/or consent of a credential program coordinator.

**EDRG 4100 Reading/Language Arts Instruction: Grades K-12 (3 units).** Strategies and practices in reading and language arts; emphasis on reading in the content area; second language development and acquisition; bilingual methodology, theory, and strategies. Prerequisites: EDRG 3250, EDMS 3100, or EDRG 3470 and consent of education adviser.

**EDRG 4150 Reading: Literature-Based Instruction for Children (3 units).** Techniques to revitalize the English-language arts curriculum through literature-based instruction; oral language strategies, such as readers theatre; review of various fairy tales as incorporated into teaching reading strategies.

### **Reading: Graduate**

**EDRG 5250 Reading and Language Arts: Assessment and Evaluation (3 units).** This course includes the understanding and evaluation of reading and writing difficulties, early intervention programs and procedures, selecting and developing materials, portfolio assessment, and state mandated bilingual tests. Prerequisites: EDRG 3250, EDMS 3110, or EDRG 3470; teaching experience.

**EDRG 5350 Reading and Language Arts: Research and Trends (3 units).** Review of research and literature in reading and language arts; in-depth analysis of one or more related topics; evaluation of trends. Prerequisites: EDRG 3250, 3470, or EDMS 3110.

**EDRG 5910 Practicum in Reading and Language Arts (3 units).** Study of techniques of reading and writing assessment, evaluation, and intervention strategies for selected children in designated classrooms; individual and small group tutoring; microteaching; weekly seminars. Prerequisites: EDRG 3250, EDRG 3110, or EDRG 3470 (required); EDRG 5250 (recommended); teaching experience, and consent of Reading Credential Program Coordinator.

### **Single Subject: Upper Division**

**EDSS 4150 Effective Teaching in the Secondary School I (2 units).** Students begin the study of a variety of processes of instruction which focus on the individual learner in the secondary school. Opportunities are provided for students to begin developing various teaching skills by teaching small groups of peers as well as on a limited basis in the classroom. Participation in the field and regular class attendance are required. Prerequisites: Admission to Single Subject Credential Program.

**EDSS 4160 Effective Teaching in the Secondary School II (4 units).** Continuation of EDSS 4150. Within this part of the program, there is a transition from a focus on the individual learner and small groups to a focus on large groups of students in the classroom setting. Participation in the field and regular attendance of University classes is required for completion. Prerequisites: Successful completion of EDSS 4150 and 4180.

**EDSS 4170 *Effective Teaching in the Secondary School III (2 units)*.** Continuation of EDSS 4160. While engaged in an accompanying practicum (4855), the student will focus on effective teaching methodology as it relates to the classroom setting. Attention will be given to learning how to assess students' needs, how to involve them more actively in their learning, and how to improve chances that they learn the required materials in the classroom. Prerequisites: Successful completion of EDSS 4150, 4180, and 4850.

**EDSS 4180 *Single Subject Instruction I (2 units)*.** Introduction to teaching in single subject instructional settings in the secondary school; study of theory and methodology in the student's single subject area; study of the scope and sequence of the single subject area as part of the total school curriculum; analysis of current trends and practices in teaching the single subject; review of courses of study and instructional materials; use of instructional techniques; analysis of practices appropriate to different types of secondary school students; evaluation of student learning in single subject areas. Prerequisites: Admission to single subject credential program and concurrent enrollment in EDSS 4150.

**EDSS 4190 *Single Subject Instruction II (2 units)*.** Continuation of EDSS 4180, teaching in single subject instructional settings in the secondary school; increased attention given to teaching single subjects to large groups of secondary students. Whenever possible, this segment of the program will include specialists from appropriate academic areas of the University and/or school district. Prerequisites: Successful completion of EDSS 4150, 4180, and 4850, based on an overall evaluation by the appropriate University personnel; concurrent enrollment in EDSS 4170.

**EDSS 4500 *Teaching Today's Adolescents (3 units)*.** Characteristics of adolescents from a historical and contemporary perspective. Discussion of early to late adolescence. Practical suggestions and implications for educators. Prerequisite: Upper-division standing.

**EDSS 4845 *Analysis and Strategies of Teaching in the Secondary School (3 units)*.** Analysis of teaching/learning styles relative to secondary school instruction. Emphasis on teaching strategies that accommodate a variety of learning preferences. Prerequisite: Completion of EDSS 4855, or preliminary credential, or consent of credential adviser.

**EDSS 4850 *Field Practicum: Secondary Education I (6 units)*.** First segment of intensive sequence of experiences which focus on individual, therapeutic, and small group instruction of secondary students in junior and/or senior high school. Participation in the field and adherence to the public school calendar required for completion. Prerequisites: Admission to single subject credential program and concurrent enrollment in EDSS 4150 and 4180.

**EDSS 4855 *Field Practicum: Secondary Education II (6 units)*.** A continuation of EDSS 4850. The second segment of an intensive fieldsite sequence of experiences which focus on working with large groups of secondary students in classroom settings in junior and/or senior high school. Daily participation in the field and adherence to the public school calendar required for completion. Prerequisites: Successful completion of EDSS 4150, 4180, and 4850, based on an overall evaluation by the appropriate University personnel; and concurrent enrollment in EDSS 4170 and 4190.



**EDSS 4860 Supervised Student Teaching in Public Secondary School Settings (2-12 units).** Prerequisite: Consent of single subject credential program coordinator. May be repeated only once.

**Education: Lower Division**

**EDUC 1000 Participation in Tutoring (1 unit).** Consideration of the role of the tutor and the teacher in the school. Values and limitations of various learning situations. May be repeated for a total of 3 units. Prerequisites: Certificate of Clearance, medical clearance, and consent of instructor.

**Education: Upper Division**

**EDUC 3000 The Instructional Aide (2 units).** Directed observation and participation in an educational setting as an instructional or teacher aide; practices related to working with children and youth, especially recommended for students interested in teaching. May be repeated for a total of 4 units. Prerequisites: Certificate of Clearance, medical clearance, and consent of instructor.

**EDUC 3500 Early Field Experience (2 units).** Participants will be involved in a variety of school related experiences to assist them in determining their suitability for becoming a classroom teacher. The course will combine classroom work on the University campus and K-12 field experiences, with a focus on gaining a beginning understanding of the role of the teacher in the contemporary public school.

**Note:** This course meets the pre-professional program requirement of early field experience for admission to the Multiple Subjects Credential Program or to the single subject credential program.

**EDUC 4100 Working with At-Risk Students in a Community School Setting (2-4 units).** This course gives students the opportunity to apply theoretical and practical knowledge of teaching and classroom management and provides experience with culturally and linguistically diverse students in a community school setting. Prerequisite: Consent of instructor.

**EDUC 4550 Techniques for Supervising Student Teachers (1 unit).** A course designed to provide educators with the professional skills of supervising preservice and inservice teachers using the clinical supervision process.

**EDUC 4860 Multicultural and Global Education (3 units).** This course examines the major concepts and theoretical frameworks of multicultural and global education, the application of the cultural dimensions of teaching and learning, and knowledge of diverse cultures as applied to curricular decisions. Prerequisites: Teaching credential or consent of instructor.

**EDUC 4910 Cooperative Education (2-4 units).** This course provides an opportunity to acquire relevant, practical experience in supervised paid employment within the discipline. Students are placed in private or public sector positions under the supervision of the employer and departmental Co-op coordinator. May be repeated for a total of 8 units depending upon departmental policy. Prerequisites: Sophomore standing and consent of departmental coordinator.

**EDUC 4950 Selected Topics in Education (Topics to be specified in Class Schedule) (1–5 units).** Topics vary each term, thus different topics may be taken for credit. Prerequisite: Consent of instructor.

**EDUC 4980 Individual Study (1–4 units).** For qualified undergraduate upper-division students in need of specialized study not available through regular programs. May be repeated for a total of 6 units. Prerequisites: Complete the appropriate University and Department forms and, at least two weeks prior to the beginning of the term, obtain the following approvals: instructor who will monitor the individual study, adviser, Chair of the Department of Teacher Education, and Dean of the School of Education.

### **Education: Graduate**

**EDUC 5200 Classroom Management and Discipline: Theory and Models (3 units).** Research, theory and practices concerning classroom management and discipline. Students will analyze the diverse factors operating in a classroom situation, select from appropriate alternative models, implement, and evaluate the outcomes. Prerequisite: Graduate status or permission of instructor.

**EDUC 5330 Research and Trends in Mathematics, Science, and Social Studies, K–12 (3 units).** This course is designed to analyze and evaluate the K–12 curriculum with emphasis on mathematics, science, and social studies. Selected topics for extensive and intensive study. Prerequisite: Consent of education adviser.

**EDUC 5340 Research Trends in the Curriculum (3 units).** This course is designed to analyze and evaluate the K–12 curriculum in general. Emphasis is on recent research findings and implications. Prerequisite: Consent of education adviser.

**EDUC 5400 Teachers as Change Agents: Researchers and Writers (3 units).** Topics will include training on planning and implementing in-services and staff development, curriculum design and evaluation, grant writing and writing for publications, technology, and community/parent relationships. Prerequisites: Teaching credential; consent of education adviser.

**EDUC 5770 Seminar in Elementary and Secondary Education (2 units).** This course is designed to analyze and evaluate the interrelationships among content, purposes, organization, policies, and practices in contemporary elementary and secondary schools. Prerequisite: Consent of education adviser.

**EDUC 5880 Improving Instructional Skills in Cultural Context (3 units).** Focus will be on development of additional teaching skills while considering effects of cultural context on instruction as well as cultural background of the teacher. Prerequisite: Adviser or instructor approval.

**EDUC 5885 Instructional Programs to Enhance Thinking Skills (3 units).** This course is designed to review and analyze instructional programs designed to improve the K–12 learner's skills in critical thinking and problem solving. Consideration of various nationally tested programs utilizing content processes, materials, and strategies. Prerequisites: Teaching credential and classroom teaching experience.

***EDUC 5950 Selected Topics in Teacher Education (Topics to be Specified in Class Schedule) (1–5 units).*** Development of a selected topic in teacher education. Topics vary each term. Different topics may be taken for credit. Prerequisites: consent of instructor.

***EDUC 5960 Project (1–3 units).*** This course is designed to assist the master's candidate in the preparation of a final project for the fulfillment of the Master's Degree. May be repeated for a total of 6 units. Prerequisite: Consent of M.A. adviser.

***EDUC 5980 Individual Study (1–4 units).*** This course is designed to provide graduate students specialized study related to their degree program. May be repeated for a total of 6 units. Prerequisites: Approval of student graduate committee, consent of instructor.

***EDUC 5990 Thesis (1–3 units).*** This course is designed to assist graduate students in the preparation of their master's thesis. May be repeated for a total of 4-6 units. Prerequisite: Consent of M.A. adviser.

## Vocational Education

Office: Classroom 122B, (209) 667-3534

Adviser: Lilia J. Baballe



This degree program is made possible through legislation enacted in 1943 (known as the Swan Act). The intent is to provide a baccalaureate degree for vocational teachers who can gain subject matter competence only through occupational or professional experience. The occupational experience credit (1 to 40 units) is evaluated by the Board of Examiners for Vocational Teachers and counts towards the Vocational Education major and these are called the student's "Swan Act" units. The degree can be awarded only to students who possess the Designated Subjects Credential in Vocational Education or a California Community College teaching credential in an approved subject matter area. The Bachelor of Vocational Education is accepted as an academic degree program for the Multiple Subjects Credential (for elementary schools) and the Single Subject Credential (for secondary schools).

The applicant must have a minimum of 1,620 hours of full-time teaching experience in an approved vocational class, or 1,000 hours of part-time teaching experience in an approved trade extension class. "Approved" classes are those in conformity with the California State Plan for Vocational Education, Part I, Administrative Provisions.

### Bachelor of Vocational Education

The Bachelor of Vocational Education degree with a major in Vocational Education consists of the segments described below:

#### Requirements (124 units minimum)

The 124 units must include at least 40 Upper Division and 30 units residence of which 24 semester units must be Upper Division). A minimum overall 2.00 grade point average is required.

##### I. Vocational Program (33-40 units)

###### a. Major in Vocational Education (24 units)<sup>1</sup>

<sup>1</sup> The degree program requires a minimum of 24 upper-division units in the major. All or a major portion of this credit will be awarded for work experience by the Board of Examiners for Vocational Teachers upon application by the student to the Bureau of Industrial Education, California State Department of Education; ("Swan Act" evaluation). If the student fails to obtain 24 units of credit through the "Swan" evaluation, the remaining units in the Vocational Education major are to be taken in regular California State University, Stanislaus upper-division courses or appropriate extension courses related to the student's interests, selected with the approval of the vocational education adviser.

- b.** Designated Subjects Credential (9–16 units)<sup>2</sup>
  - 2. *Liberal Arts Program*
    - a.** General Education (51 units, at least 9 of which must be in residence)
    - b.** Upper Division Writing Competency
    - c.** Degree Minor (15 unit minimum)<sup>3</sup>
    - d.** Electives<sup>4</sup>
  - 3. *University*
    - a.** Upper Division (40)
    - b.** Residence (30)
- Note:** *When an applicant applies to CSU Stanislaus, the following data should be included, if available:*
- Verification of “Swan Act” units, including date of evaluation
  - Verification of Designated Subjects Teaching credential in Vocational Education
  - Degree minor desired.

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<sup>2</sup> A student must have obtained the clear Designated Subjects Teaching Credential in Vocational Education or a California Community College teaching credential in an approved subject matter area before graduating from the BVE degree program. Vocational teacher training completed by the applicant may be used toward electives.

<sup>3</sup> Degree Minor: Students must select a minor from those listed in the University catalog. Courses to meet the requirements for a minor must be arranged with a minor adviser (usually the department chair) in the department offering the minor.

<sup>4</sup> Included as electives are courses transferred by another college which are not used elsewhere in the degree program. Additional courses required to meet the minimum requirement for graduation (124 units) must be chosen in consultation with the vocational education adviser from among courses and programs throughout the University.

## The General Faculty

- AAMODT, Melvin H. (1970), Professor of Human Geography; B.A. 1958, Brigham Young University; M.A. 1960, University of Wisconsin; Ph.D. 1968, Indiana University
- ABRAM, Thomas J. (1983), Associate Professor of Mathematics; B.A. 1974, M.S. 1976, California State University, Northridge; Ph.D. 1983, University of California, Santa Barbara
- ABU KHALIL, As'ad (1993), Lecturer in History and Politics/Public Administration; B.A. 1981, M.A. 1983, American University of Beirut; Ph.D. 1988, Georgetown University, Washington, D. C.
- AHANOTU, Austin Metumara (1970), Professor of History, B.A. 1967; Berea College; M.A. 1968, Ph.D. 1971, University of California, Los Angeles
- AKWABI-AMEYAW, Kofi (1990) Associate Professor of Anthropology; B.A. 1970, University of Ghana; M.A. 1981, University of Cincinnati; Ph.D. 1988, University of Florida
- ALMY, John (1971), Professor of Organic/General Chemistry; B.A. 1964, Johns Hopkins University; Ph.D. 1969, University of California, Los Angeles
- ALTER, Richard D. (1979), Dean of Continuing and Extended Education; B.A. 1961, Ohio Wesleyan University; M.A. 1965, Ph.D. 1967, University of Utah
- †ALY, Nael A. (1984), Professor of Operations Management; B.Sc. 1974, M.Sc. 1978, Alexandria University, Egypt; M.S. 1981, Ph.D. 1985, University of Oklahoma
- AMRHEIN, John K. (1984), Dean of Library Services; B.A. 1961, Duquesne University; M.L.S. 1963, University of Pittsburgh; M.A. 1967, Pennsylvania State University
- ANDERSON, Robert K. (1971), Professor of Language & Literature: Spanish; B.A. 1966, Brigham Young University; Ph.D. 1973, Saint Louis University
- ANDERSON, Roberta T. (1987), Professor of Speech Communication; B.S. 1955, University of Wisconsin, Milwaukee; M. Ed. 1965, Ph.D. 1972, University of Illinois, Urbana
- ANTON, Tod A. (1990), Professor of School Administration; A.B. 1951, M.S. 1954, Ed. D. 1964, University of Southern California
- ARONSON, Melissa M. (1976), Assistant Professor of Teacher Education; B.A. 1967, M.A. 1972, California State University, Stanislaus; Ed.D. 1982, University of San Francisco
- ASHER, Rita Ann (1982), Director of the Child Development Center; Associate Professor of Psychology; B.S. 1975, State University College at Fredonia (New York); M.S. 1979, Ph.D. 1984, Texas Tech University
- AUBERT, Edward J. (1961), Director of Admissions and Records; B.S. 1956, University of San Francisco; M.B.A. 1961, University of California, Berkeley
- BANKS, Amberse M. (1978), Lecturer in Mathematics; B.S. 1950, California State University, Fresno; M.S. 1958, Emory University; M.S. 1970, Western Washington University
- BARNETT, John A. (1984), Associate Professor of Art; B.A. 1966, Western Washington State College; M.F.A. 1971, University of Washington
- BARRETT, Thomas P. (1961), Professor of Management: General; B.A. 1954, Northeastern University; M.A. 1958, Michigan State University
- BERKOBEN, Lawrence D. (1963), Professor of Language & Literature: English; B.A. 1957, Pennsylvania State University; M.A. 1958, Ohio University; Ph.D. 1963, University of Washington
- BETTENCOURT, Leland R. (1992), Counselor; B.A. 1982, M.S.W. 1984, California State University, Fresno
- BLODGETT, Harriet H. (1989), Assistant Professor of English (British Literature); A.B. 1954, Queens College, New York; M.A. 1956, University of Chicago; Ph.D. 1966, University of California, Davis
- BOFFMAN, June L. (1977), Professor of Nursing; B.S. 1969, M.S. 1970, University of California, San Francisco; Ed.D. 1988, University of San Francisco

- BOLLING, Anna L. (1988), Assistant Professor of English; B.S. 1965, University of Texas at Austin; M.A. 1970, Southwest Texas State University; Ph.D. 1974, Texas A & M
- BOWEN, James C. (1970), Professor of Physical Education; B.A. 1965, University of Northern Iowa; M.A. 1969, Ph.D. 1973, University of Iowa
- BOWERS, Donald W. (1971), Associate Vice President for Academic Resources; Professor of Sociology; B.A. 1967, M.A. 1969, Ph.D. 1973, University of Utah
- BOWERS, Ida I. (1972), Professor of Physical Geography; B.S. 1961, Central Michigan University; M.A. 1965, Ph.D. 1973, University of Hawaii
- BOYER, Laura M. (1987), Associate Librarian (Reference Coordinator); A.B. 1956, George Washington University; A.M. 1959, University of Denver; A.M. 1961, George Peabody College
- BRADLEE, Peter M. (1992), Lecturer in Psychology; B.S. 1972, University of Massachusetts, Amherst; M. S. 1983, California State University, Hayward; Ph.D. 1990, University of California, Davis
- BRADLEY, Janice L. (1993), Lecturer in Chemistry; B.S. University of Houston, Houston; Ph.D. 1984, University of Florida, Gainesville
- BRADLEY, Marylee (1993), Assistant Professor of Teacher Education (Secondary Education Generalist); B.S. 1964, State University of New York, Potsdam; A.M. 1965, University of Illinois, Champaign-Urbana
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- PISKOTI, James (1969), Professor of Art; B.S. 1967, University of Michigan; M.F.A. 1969, Yale University
- PITMAN, Léon S. (1969), Professor of Human Geography; B.S. 1965, Brigham Young University; M.A. 1966, University of Oklahoma; Ph.D. 1973, Louisiana State University
- PORTO, Eugenia M. (1993), Assistant Professor of Philosophy; B.A. 1975, Pennsylvania State, University Park; M.A. 1979, Western Kentucky University at Bowling Green; Ph.D., 1986, Temple University
- QUEZADA, Reyes L. (1993), Assistant Professor of Elementary Education; B.A. 1979, San Jose State University; M.A. 1987, San Diego State University; Ed.D. 1991, Northern Arizona University, Flagstaff
- RASMUSSEN, John P. (1962), Professor of History; B.A. 1955, California State University, Fresno; M.A. 1959, Ph.D. 1962, Stanford University
- REGLADO, Samuel (1987), Associate Professor of History; B.A. 1980, California State University, Northridge; M.A. 1983, Ph.D. 1987, Washington State University, Pullman
- RENEAU, Dana M. (1987), Associate Professor of Mathematics; A.B. 1977, University of California, Berkeley; M.A. 1981, M.S. 1982, Ph.D. 1987, University of California, Davis
- RENNING, H. Dieter (1970), Professor of Economics; Dr. rer. pol. (Doctor of Economics) 1961, University of Freiburg, Germany
- REUBEN, Paul P. (1971), Professor of Language & Literature: English; B.A. 1961, Patna College, India; M.A. 1963, Patna University, India; Ph.D. 1970, Bowling Green State University
- RHODES, Cecil A. (1989), Assistant Professor of Sociology; B.A. 1973, California State University, Fresno; J.D. 1980, Western State University College of Law
- ROBBIN, C. Roxanne (1990), Assistant Professor of Art History; B.A. 1980, University of Washington; Ph.D. 1990, University of California, Santa Barbara
- ††ROE, Pamela (1971), Professor of Zoology; B.A. 1965, University of Texas; M.S. 1967, Ph.D. 1971, University of Washington
- ROSENTHAL, Nina R. (1976), Professor of Education; B.S. 1969, M.S. 1971, Ph.D. 1975, Syracuse University
- \*RUSHDOONY, Haig A. (1961), Professor of Education; A.B. 1949, M.A. 1953, San Francisco State University; Ed.D. 1961, University of California, Berkeley
- RUSS, Pamela M. (1991), Assistant Professor of Teacher Education; B.A. 1977, California State University, Chico; M.A. 1987, Ph.D. 1990, University of New Mexico, Albuquerque
- RUSSELL, Todd T. (1991), Associate Professor of Advanced Studies; B.S. 1978, M.A. 1982, Ph.D. 1986, University of Oregon
- SANTOS, Robert L. (1970), Librarian (Library Instruction/Reference); B.S. 1969, California State University, Stanislaus; M.A. 1970, University of Southern California

- SANTOS, Robert Lee (1980), International Students Advisor; Counselor; B.A. 1968, California State University, Stanislaus; M.A. 1970, California State University, Sacramento; Ph.D. 1979, Southern Illinois University at Carbondale
- †††SARRAILLE, John J. (1986), Professor of Computer Science; A.B. 1973, University of California, Berkeley; M.S. 1986, University of Washington; Ph.D. 1980, University of California, San Diego
- SAVINI, Richard (1983), Professor of Art; B.F.A. 1968, Pratt Institute; M.F.A. 1970, Brooklyn College
- SCHEFKOWITZ, Janet (1992), Lecturer in Physical Education & Athletics; B.S. 1978, State University of New York, Brockport; M.S. 1981, San Francisco State University
- SCHOENTHALER, Stephen J. (1982), Professor of Sociology; B.A. 1970, State University College at Geneseo, New York; M.A. 1975, Syracuse University; Ph.D. 1980, State University of New York at Buffalo
- SCHULZ, Armin R. (1990) Assistant Professor of Teacher Education; B.S. 1968, Concordia Teachers College, Seward, Nebraska; M.A. 1973 San Francisco State University, Ed.D. 1987, University of the Pacific
- SCHWARCZ, Ervin H. (1967), Professor of Physics, Emeritus; B.S. 1945, Ohio State University; M.S. 1948, Ph.D. 1955, University of Michigan
- SETTERA, George E., Jr. (1971), Professor of Language and Literature: English; B.S. 1964, Portland State University; Ph.D. 1971, University of Oregon
- SHAW, Gary C. (1969), Professor of Political Science; B.A. 1966, Utah State University; M.A. 1967, Ph.D. 1970, Michigan State University
- SHAWKEY, Jonnie K. (1986), Assistant Professor of Teacher Education; B.A. 1966, San Jose State University; B.A. 1969, M.A. 1970, University of West Florida, Pensacola, Ed.D. 1989, University of the Pacific
- SHERMAN, Stanley E. (1969), Professor of Psychology; B.A. 1956, University of California, Berkeley; B.D. 1959, Berkeley Baptist Divinity School; M.A. 1966, San Jose State University; Ph.D. 1969, University of Washington; Certified Clinical Psychologist 1970, State of California
- SHIPLEY, Kathleen N. (1987), Lecturer in Communication Studies; B.A. 1965, M.A. 1966, University of California, Santa Barbara
- SHORT, Terrie Lee (1980), Lecturer in Mathematics; B.S. 1979, M.A. 1986, California State University, Stanislaus
- SMITH, Priscilla R. (1968), Professor of Education, Emeritus; A.B. 1941, John R. Stetson University; M.Ed. 1955, National College Education; Ed.D. 1963, University of Denver
- SMURR, J. W. (1967), Professor of History, Emeritus; B.A. 1950, M.A. 1951, University of Montana; Ph.D. 1960, Indiana University
- SNEIZEK, Karen M. (1984), Professor of Special Education; B.A. 1972, California State University, Fresno; M.Ed. 1979, Ph.D. 1983, Pennsylvania State University
- \*STENZEL, David B. (1961), Professor of History, Emeritus; Diploma 1950, University of Vienna; B.S. 1951, Georgetown University; M.A. 1954, Ph.D. 1957, University of California, Berkeley
- STRYKER, Steven B. (1990), Lecturer in English & Modern Language; B.A. 1968, M.A. 1976, M.Ed. 1980, Ph.D. 1984, University of Arizona, Tucson
- SUMSER, John R. (1990), Associate Professor of Communication Studies; B.A. 1976, M.A. 1979, San Jose State University; M.A. 1985, Ph.D. 1989, State University of New York, Stony Brook
- SUNDRAR, Viji K. (1978), Professor of Mathematics; B.S. 1962, M.S. 1964, University of Poona, India; M.S. 1968, Ph.D. 1973, University of Illinois, Urbana
- SWAIN, Lorna M. (1961), Professor of Education, Emeritus; A.B. 1937, University of California, Berkeley; M.A. 1954, Humboldt State University; Ed.D. 1960, Stanford University
- SWANSON, Patricia E. (1993), Assistant Professor of Teacher Education, (Elementary Education Curriculum Instruction); B.A. 1980, Middlebury College, Vermont; M.A. Sociology 1991, Stanford University; M.A. 1993, Administration & Policy Analysis, Stanford University

- TAMIMI, Judith A. (1977), Senior Assistant Librarian; B.A. 1972, M.A. 1974, University of California, Davis; M.L.S. 1976, University of California, Berkeley
- TANIGUCHI, Nancy J. (1989), Associate Professor of History; B.A. 1968, University of Arizona; M.A. 1981, Ph.D. 1985, University of Utah
- TAYLOR, Douglas H. (1969), Professor of Language and Literature: English; B.A. 1960, Whitman College; M.A. 1963, University of Washington; Ph.D. 1967, University of California, Davis
- THOMPSON, Evan M. (1965), Professor of Organic/General Chemistry; B.A. 1960, Ph.D. 1964, Brigham Young University
- \*\*THOMPSON, Lloyd R. (1968), Associate Professor of Education; B.S. 1952, University of Minnesota; M.A. 1957, California State University, Long Beach; M.Ed. 1959, Ed.D. 1966, University of Southern California
- THOMPSON, Mark (1993), Assistant Professor of English; B.A. 1982, East Central University, Ada, Oklahoma; M.A. 1989, University of Oklahoma
- TORDOFF, Walter III (1970), Professor of Zoology; B.A. 1965, University of Massachusetts; M.S. 1967, Ph.D. 1971, Colorado State University
- TOWELL, Janet H. (1990), Assistant Professor of Teacher Education; B.S. 1972, M.A. 1979, Appalachian State University; Ed.D. 1985, University of Maryland, College Park
- TRUPI, Frank J. (1971), Professor of Sociology; B.A. 1961, M.A. 1963, California State University, Los Angeles; Ph.D. 1971, University of California, Los Angeles
- TSACLE, Eleftherios G. (1973), Associate Professor of Business Computer Information Systems; B.S. 1968, University of San Francisco; M.A. 1971, University of California, Berkeley; M.S. 1977, University of California, Davis
- TUEDIO, James A. (1983), Professor of Philosophy; A.B. 1976, University of California, Santa Cruz; M.A. 1980, Ph.D. 1983, University of Colorado, Boulder
- URREIZTIETA, Irel (1988), Dean, College of Arts, Letters, and Sciences, Professor of Spanish; B.A. 1967, M.A. French, 1969, M.A. English as a Second Language, 1977, Ph.D. 1980, University of Arizona, Tucson
- VANDERMOLEN, Ronald J. (1969), Professor of History; B.A. 1961, Calvin College; M.A. 1962, DePaul University, Ph.D. 1969, Michigan State University
- VANG, Anthony T. K. (1993), Assistant Professor of Teacher Education, (Language Acquisition); B.S. 1986, M.A. 1988; Ed.D. 1992, University of San Francisco
- VAN REGENMORTER, Robert J. (1981), Professor of Accounting; B.A. 1963, Ferris State College; M.B.A. 1966, Michigan State University; Ph.D. 1973, Oklahoma State University; C.P.A. 1974, State of Tennessee
- †VELLENGA, Daniel R. (1986), Professor of Finance; B.S. 1961, M.B.A. 1963, University of Illinois, Urbana; Ph.D. 1974, Michigan State University
- WADE, Jere D. (1969), Professor of Drama; B.A. 1958, M.A. 1966, University of California, Davis; Ph.D. 1972, University of Oregon
- WAKEFIELD, James A., Jr. (1974), Professor of Psychology; B.A. 1970, University of Texas, Austin; M.A. 1973, Ph.D. 1973, University of Houston
- WASHINGTON, Delo E. (1972), Professor of Black Studies; B.A. 1957, Spelman College; M.S.W. 1959, Atlanta University; Ph.D. 1977, University of California, Berkeley
- WATKINS, Cathy L. (1990), Assistant Professor of Special Education; B.S. 1981, M.A. 1983, California State University, Stanislaus; Ph.D. 1987, University of Florida, Gainesville
- WEBSTER, William G. (1976), Professor of Education; B.S. 1951, Southern University, Baton Rouge; M.S. 1967, California State University, Hayward; Ed.D. 1976, University of the Pacific
- WEEDON, Jerry L. (1971), Professor of Speech Communication; B.A. 1958, California State University, Long Beach; M.A. 1963, Ph.D. 1969, University of California, Los Angeles
- WERNESSE, Hope B. (1976), Professor of Art; B.A. 1965, University of California, Santa Barbara; M.A. 1968, Tulane University; Ph.D. 1972, University of California, Santa Barbara
- WHITE, Everett Edison III (1992), Assistant Professor of Economics; B.A. 1969, M.A. 1974, Ph.D. 1979, Virginia Polytechnic Institute, Blacksburg, Virginia
- WILLIAMS, Daniel F. (1971), Professor of Zoology; B.A. 1966, Central Washington State College; M.S. 1968, Ph.D. 1971, University of New Mexico



- WILLIAMS, Jack W.** (1969), Professor of Language and Literature: English; B.A. 1962, M.A. 1966, University of Colorado,
- WILLIAMS, Kaylene C.** (1986), Professor of Marketing; B.A. 1973, M.B.A. 1976, California State University, Sacramento; D.B.A. 1980, University of Tennessee, Knoxville
- WILSON, Elizabeth A.** (1989), Assistant Professor of Communication Studies; B.A. 1967, Denison University, Ohio; M.A. 1972, Colorado State University; Ph.D. 1989, Ohio State University
- WINK, Joan** (1991), Assistant Professor of Teacher Education; B.A. 1966, Yankton College, Yankton, South Dakota; M.A. in Spanish, 1982, M.Ed. in Educational Foundations and Administration, Bilingual Emphasis, 1985, University of Arizona; Ph.D. 1991, Texas A. & M. University
- ††WOLD, John T.** (1970), Professor of Political Science; B.A. 1965, California Lutheran College; M.A. 1968, Ph.D. 1972, Johns Hopkins University
- YASUI, Roy Y.** (1971), Professor of Education and Geology; B.Ed. 1964, University of Alberta; M.S. 1965, Ph.D. 1967, University of Oregon
- YOUNG, Thomas J.** (1981), Professor of Journalism/Mass Communication; B.A. 1970, California State University, Long Beach; M.S. 1971, Illinois State University; Ph.D. 1975, University of Oregon
- YOUNG, W. Andrew** (1989), Assistant Professor of Philosophy; B.A. 1981, University of California, Santa Cruz; M.A. 1986, Ph.D. 1988, Vanderbilt University
- YOUNGBLOM, Janey H.** (1990), Assistant Professor of Biological Sciences; M.A. 1977, M.S. 1978, Rutgers University; Ph.D. 1987, University of Minnesota, Minneapolis
- ZARLING, Raymond L.** (1983), Professor of Computer Science; B.A. 1967, Luther College, Decorah, Iowa; M.A. 1968, University of Michigan; Ph.D. 1976, University of North Carolina

- † Sabbatical Leave, Fall 1993
- †† Sabbatical Leave, Spring 1994
- ††† Sabbatical Leave, Academic Year 1993-94
- ††† Professional LWOP, Academic Year 1993-94
- ††† Sabbatical Leave, Winter/Spring/Fall 1994
- \* F.E.R.P. (Teaches Fall and Winter)
- \*\* F.E.R.P. (Teaches Winter and Spring)
- \*\*\* F.E.R.P. (Teaches Spring)
- \*\*\*\* F.E.R.P. (Teaches Fall)

## Appendix A

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

<i>GPA</i>	<i>ACT score</i>	<i>SAT score</i>	<i>GPA</i>	<i>ACT score</i>	<i>SAT score</i>	<i>GPA</i>	<i>ACT score</i>	<i>SAT score</i>
Above 3.00 qualifies with any score								
2.99	10	410	2.65	17	680	2.31	24	960
2.98	10	420	2.64	17	690	2.30	24	960
2.97	10	430	2.63	17	700	2.29	24	970
2.96	11	440	2.62	17	710	2.28	24	980
2.95	11	440	2.61	18	720	2.27	24	990
2.94	11	450	2.60	18	720	2.26	25	1000
2.93	11	460	2.59	18	730	2.25	25	1000
2.92	11	470	2.58	18	740	2.24	25	1010
2.91	12	480	2.57	18	750	2.23	25	1020
2.90	12	480	2.56	19	760	2.22	25	1020
2.89	12	490	2.55	19	760	2.21	26	1040
2.88	12	500	2.54	19	770	2.20	26	1040
2.87	12	510	2.53	19	780	2.19	26	1050
2.86	13	520	2.52	19	790	2.18	26	1060
2.85	13	520	2.51	20	800	2.17	26	1070
2.84	13	530	2.50	20	800	2.16	27	1080
2.83	13	540	2.49	20	810	2.15	27	1080
2.82	13	550	2.48	20	820	2.14	27	1090
2.81	14	560	2.47	20	830	2.13	27	1100
2.80	14	560	2.46	21	840	2.12	27	1100
2.79	14	570	2.45	21	840	2.11	28	1120
2.78	14	580	2.44	21	850	2.10	28	1120
2.77	14	590	2.43	21	860	2.09	28	1130
2.76	15	600	2.42	21	870	2.08	28	1140
2.75	15	600	2.41	22	880	2.07	28	1150
2.74	15	610	2.40	22	880	2.06	29	1160
2.73	15	620	2.39	22	890	2.05	29	1160
2.72	15	630	2.38	22	900	2.04	29	1170
2.71	16	640	2.37	22	910	2.03	29	1180
2.70	16	640	2.36	23	920	2.02	29	1190
2.69	16	650	2.35	23	920	2.01	30	1200
2.68	16	660	2.34	23	930	2.00	30	1200
2.67	16	670	2.33	23	940	Below 2.00 does not qualify for regular admission		
2.66	17	680	2.32	23	950			

Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section.

## Appendix B

### History of Calendar Changes

From September 1960 through summer 1965, the University operated on the semester system, each semester being approximately 16 weeks in length.

In September, 1965, the University converted to the quarter system, each quarter being about 11 weeks in length.

Beginning with the 1973 Summer Session, the University returned to the semester system.

In September 1973, the University adopted a 4-1-4 calendar which provides for a 13-week Fall Semester, a one-month Winter Term and a 13-week Spring semester.

Semester units can be converted to quarter units by multiplying by  $1\frac{1}{2}$  (4 semester units  $\times$   $1\frac{1}{2}$  = 6 quarter units). Quarter units are converted to semester units by multiplying by  $\frac{2}{3}$  (9 quarter units  $\times$   $\frac{2}{3}$  = 6 semester units).

## Appendix C

### Determination of Residence for Non-resident Tuition Purposes

The campus Admissions Office determines the residence status of all new and returning students for non-resident tuition purposes. Responses to the Application for Admission and, if necessary, other evidence furnished by the student are used in making this determination. A student who fails to submit adequate information to establish a right to classification as a California resident will be classified as a non-resident.

The following statement of the rules regarding residency determination for non-resident tuition purposes is not a complete discussion of the law, but a summary of the principal rules and their exceptions. The law governing residence determination for tuition purposes by The California State University is found in *Education Code* Sections 68000-68090, 68121, 68123, 68124, and 89705-89707.5, and in Title 5 of the *California Code of Regulations*, Sections 41900-41912. A copy of the statutes and regulations is available for inspection at the campus Admissions Office.

Legal residence may be established by an adult who is physically present in the state and who, at the same time, intends to make California his or her permanent home. Steps must be taken at least one year prior to the residence determination date to show an intent to make California the permanent home with concurrent relinquishment of the prior legal residence. The steps necessary to show California residency intent will vary from case to case. Included among the steps may be registering to vote and voting in elections in California; filing resident California state income tax forms on total income; ownership of residential property or continuous occupancy or renting of an apartment on a lease basis where one's permanent belongings are kept; maintaining active resident memberships in California professional or social organizations; maintaining California vehicle plates and operator's license; maintaining active savings and checking accounts in California banks; maintaining permanent military address and home of record in California if one is in the military service.

The student who is within the state for educational purposes only does not gain the status of resident regardless of the length of the student's stay in California.

In general, the unmarried minor (a person under 18 years of age) derives legal residence from the parent with whom the minor maintains or last maintained his or her place of abode. The residence of a minor cannot be changed by the minor or the minor's guardian, so long as the minor's parents are living.

A married person may establish his or her residence independent of his or her spouse.

An alien may establish his or her residence, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States. An unmarried minor alien derives his or her residence from the parent with whom the minor maintains or last maintained his or her place of abode.

Non-resident students seeking reclassification are required by law to complete a supplemental questionnaire concerning financial independence.

The general rule is that a student must have been a California resident for at least one year immediately preceding the residence determination date in order to qualify as a "resident student" for tuition purposes. A residence determination date is set for each academic term and is the date from which residence is determined for that term. The residence determination dates are:

<i>Quarter term campuses</i>	
Fall	September 20
Winter	January 5
Spring	April 1
Summer	July 1

<i>Semester term campuses</i>	
Fall	September 20
Winter	January 5 (Stanislaus only)
Spring	January 25

Questions regarding residence determination dates should be directed to the campus Admissions Office which can give you the residence determination date for the term for which you are registering.

There are exceptions from non-resident tuition, including

1. Persons below the age of 19 whose parents were residents of California but who left the state while the student, who remained, was still a minor. When the minor reaches age 18, the exception continues for one year to enable the student to qualify as a resident student.
2. Minors who have been present in California with the intent of acquiring residence for more than a year before the residence determination date, and entirely self-supporting for that period of time.
3. Persons below the age of 19 who have lived with, and been under the continuous direct care and control of an adult, not a parent, for the two years immediately preceding the residence determination date. Such adult must have been a California resident for the most recent year.
4. Dependent children and spouses of persons in active military service stationed in California on the residence determination date. The exception, once attained, is not affected by retirement or transfer of the military person outside the state.
5. Military personnel in active service stationed in California on the residence determination date for purposes other than education at state-supported institutions of higher education.
6. Dependent children of a California resident who has been a California resident for the most recent year. This exception continues until the student has resided in the state the minimum time necessary to become a resident, so long as continuous residence is maintained at an institution.
7. Graduates of any school located in California that is operated by the United States Bureau of Indian Affairs, including, but not limited to, the Sherman Indian High School. The exception continues so long as continuous attendance is maintained by the student at an institution.
8. Certain credentialed, full-time employees of California school districts.
9. Full-time State University employees and their children and spouses; State employees assigned to work outside the State and their children and spouses. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for one year.
10. Certain exchange students.
11. Children of deceased public law enforcement or fire suppression employees who were California residents and who were killed in the course of law enforcement or fire suppression duties.

Any student, following a final campus decision on his or her residence classification only, may make written appeal to:

The California State University  
Office of General Counsel  
400 Golden Shore  
Long Beach, California 90802-4275

within 120 calendar days of notification of the final decision on campus of the classification. The Office of General Counsel may make a decision on the issue, or it may send the matter back to the campus for further review. Students classified incorrectly as residents or incorrectly granted an exception from non-resident tuition are subject to reclassification as non-residents and payment of non-resident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the *California Code of Regulations*. Resident students who become non-residents, and non-resident students qualifying for exceptions whose basis for so qualifying changes, must immediately notify the Admissions and Records Office. Applications for a change in classification with respect to a previous term are not accepted.

The student is cautioned that this summation of rules regarding residency determination is by no means a complete explanation of their meaning. The student should also note that changes may have been made in the rate of non-resident tuition, in the statutes, and in the regulations between the time this catalog is published and the relevant residence determination date.

## Appendix D

### Procedure for the Establishment or Abolishment of a Student Body Fee

The law governing The California State University provides that a student body fee may be established by student referendum with the approval of 2/3 of those students voting. The Student Body Fee was established at CSU Stanislaus by student referendum on November 19, 1987. The same fee can be abolished by a similar 2/3 approval of students voting on a referendum called for by a petition signed by 10% of the regularly enrolled students (*Education Code*, Section 89300). The level of the fee is set by the Chancellor. An increase in the student body fee may be approved by the Chancellor only following a referendum on the fee increase approved by a majority of students voting. Student body fees support a variety of cultural and recreational programs, child care centers, and special student support programs.

## Appendix E

### Refund Regulations

Whether a fee may be refunded and the circumstances under which a fee or any part of a fee may be refunded vary depending on the particular fee involved. Requirements governing refund may include such matters as the reason for seeking a refund (for example, death, disability, compulsory military service), the number of days of instruction which have elapsed before application for refund is made (for example, requests for refund of State University fees, student body organization fees, and University Union fees must be made no later than 14 days following the commencement of instruction, and requests for refund of extension course tuition fees must be made prior to the fourth meeting of the class), and the degree to which the campus has provided the services for which the fee has been charged.

Written application for refund of fees must be made on the Request for Refund form available from the Records Office. To receive a partial refund, the completed Withdrawal Card must be received in the Records Office not later than the 14th calendar day following the first day of instruction.

Fees which may *not* be refunded (except upon complete withdrawal from CSUS) include: a) late registration fee; and b) Associated Students' fee, IRA fee, University Union fee.

Fees which may be refunded include: a) fee collected in error; b) State University fee (except for \$5); c) difference between semester full-time and part-time fees for change to part-time status within 14 days of the first day of instruction; d) any fee for student unable to continue enrollment because of campus rule, death, physical disability, or compulsory military service; f) all or part of a fee other than a registration fee, not earned by CSUS, in which case the Business Office must certify the amount not earned; and g) special session or extension fees in accordance with Title 5 formulas.

Upon official withdrawal from CSU Stanislaus by the stated refund deadline, the University will refund the total fees paid less \$5.00.

For each unit of non-resident fee charged, the University will refund the entire fee charged during the first week of each semester; thereafter 90% will be refunded the second week, 70% the third week, 50% the fourth week, 30% the fifth week and 20% the sixth week. There will be no refund after the sixth week.

## Appendix F

### Average Annual Cost of Education and Sources of Funds per Full-time Equivalent Student

The 20 campuses and the Chancellor's Office of The California State University are financed primarily through funding provided by the taxpayers of California. The total state appropriation to the CSU for 1992/93, including capital outlay and employee compensation increases, is \$1,741,478,000. However, the total cost of education for CSU is \$2,112,024,000 which must provide support for a projected 247,194 full-time equivalent (FTE)<sup>a</sup> students.

The total cost of education in the CSU is defined as the expenditures for current operations, including payments made to the students in the form of financial aid, and all fully reimbursed programs contained in state appropriations, but excluding capital outlay appropriations. The average cost of education is determined by dividing the total cost by the total FTES. The average cost is further differentiated into three categories: State Support (the state appropriation, excluding capital outlay), Student Fee Support, and Support from Other Sources (including Federal Funds).

Thus, excluding costs which relate to capital outlay (i.e., building amortization), the average cost of education per FTE student is \$8,544. Of this amount, the average student fee support per FTE is \$1,989. The calculation for this latter amount includes the amount paid by non-resident students.

### Source of Funds and Average Costs for 1992/93 CSU Budget (Projected enrollment: 247,194 FTEs)

	Average Cost Per Student			Percentage
	Amount	(FTE)		
Total cost of education	\$2,112,024,000 <sup>b</sup>	\$8,544	100.0	
— State appropriation	1,516,908,000 <sup>c</sup>	6,137	71.8	
— Student fee support	491,678,000	1,989 <sup>d</sup>	23.3	
— Support from other sources	103,438,000	418	4.9	

- a For budgetary purposes, full-time equivalent (FTE) translates total head count into total academic student load equivalent to 15 units per term. Some students enroll for more than 15 units; some students enroll for fewer than 15 units.
- b The total cost of education does not include the amount related to lottery and the capital investment of the CSU. The estimated replacement cost of all the system's permanent facilities and equipment on the 20 campuses is currently valued at \$6.5 billion, excluding the cost of the land.
- c This figure does not include the capital outlay appropriation of \$224,570,000.
- d The average costs paid by a student include the State University Fee, Application Fee, and Non-resident Tuition. Individual students may pay less than \$1,989 depending on whether they are part-time, resident or non-resident students.

## Appendix G

### Student Discipline

Inappropriate conduct by students or by applicants for admission is subject to discipline as provided in Sections 41301 through 41304 of Title 5, *California Code of Regulations*. These sections are as follows:

#### *Article 1.1, Title 5, California Code of Regulations*

**41301. Expulsion, Suspension and Probation of Students.** Following procedures consonant with due process established pursuant to Section 41304, any student of a campus may be expelled, suspended, placed on probation or given a lesser sanction for one or more of the following causes which must be campus related:

- a. Cheating or plagiarism in connection with an academic program at a campus.
  - b. Forgery, alteration or misuse of campus documents, records, or identification or knowingly furnishing false information to a campus.
  - c. Misrepresentation of oneself or of an organization to be an agent of a campus.
  - d. Obstruction or disruption, on or off campus property, of the campus educational process, administrative process, or other campus function.
  - e. Physical abuse on or off campus property of the person or property of any member of the campus community or of members of his or her family or the threat of such physical abuse.
  - f. Theft of, or non-accidental damage to, campus property, or property in the possession of, or owned by, a member of the campus community.
  - g. Unauthorized entry into, unauthorized use of, or misuse of campus property.
  - h. On campus property, the sale or knowing possession of dangerous drugs, restricted dangerous drugs, or narcotics as those terms are used in California statutes, except when lawfully prescribed pursuant to medical or dental care, or when lawfully permitted for the purpose of research, instruction or analysis.
  - i. Knowing possession or use of explosives, dangerous chemicals, or deadly weapons on campus property or at a campus function without prior authorization of the campus president.
  - j. Engaging in lewd, indecent, or obscene behavior on campus property or at a campus function.
  - k. Abusive behavior directed toward, or hazing of, a member of the campus community.
  - l. Violation of any order of a campus President, notice of which had been given prior to such violation and during the academic term in which the violation occurs, either by publication in the campus newspaper, or by posting on an official bulletin board designated for this purpose, and which order is not inconsistent with any of the other provisions of this Section.
  - m. Soliciting or assisting another to do any act which would subject a student to expulsion, suspension, or probation pursuant to this Section.
  - n. For purposes of this Article, the following terms are defined:
    1. The term "member of the campus community" is defined as meaning California State University Trustees, academic, non-academic and administrative personnel, students, and other persons while such other persons are on campus property or at a campus function.
    2. The term "campus property" includes:
      - a. real or personal property in the possession of, or under the control of, the board of Trustees of the California State University, and
      - b. all campus feeding, retail, or residence facilities whether operated by a campus or by a campus auxiliary organization.
    3. The term "deadly weapons" includes any instrument or weapon of the kind commonly known as a blackjack, slingshot, billy, sandclub, sandbag, metal knuckles, any dirk, dagger, switchblade knife, pistol, revolver, or any other firearm, any knife having a blade longer than five inches, any razor with an unguarded blade, and any metal pipe or bar used or intended to be used as a club.
    4. The term "behavior" includes conduct and expression.
    5. The term "hazing" means any method of initiation into a student organization or any pastime or amusement engaged in with regard to such an organization which causes, or is likely to cause, bodily danger, or physical or emotional harm, to any member of the campus community; but the term "hazing" does not include customary athletic events or other similar contests or competitions.
  - o. This Section is not adopted pursuant to Education Code Section 89031.
  - p. Notwithstanding any amendment or repeal pursuant to the resolution by which any provision of this Article is amended, all acts and omissions occurring prior to that effective date shall be subject to the provisions of this Article as in effect immediately prior to such effective date.
- 41302. Disposition of Fees: Campus Emergency; Interim Suspension.** The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted

before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

**41303. Conduct by Applicants for Admission.** Notwithstanding any provision in this Chapter 1 to the contrary, admission or readmission may be qualified or denied to any person who, while not enrolled as a student, commits acts which, were he enrolled as a student, would be the basis for disciplinary proceedings pursuant to Sections 41301 or 41302. Admission or readmission may be qualified or denied to any person who, while a student, commits acts which are subject to disciplinary action pursuant to Section 41301 or Section 41032. Qualified admission or denial of admission in such cases shall be determined under procedures adopted pursuant to Section 41304.

**41304. Student Disciplinary Procedures for the California State University.** The Chancellor shall prescribe, and may from time to time revise, a code of student disciplinary procedures for the California State University. Subject to other applicable law, this code shall provide for determinations of fact and sanctions to be applied for conduct which is a ground of discipline under Sections 41301 or 41302, and for qualified admission or denial of admission under Section 41303; the authority of the campus President in such matters; conduct related determinations on financial aid eligibility and termination; alternative kinds of proceedings, including proceedings conducted by a Hearing Officer; time limitations; notice; conduct of hearings, including provisions governing evidence, a record, and review; and such other related matters as may be appropriate. The Chancellor shall report to the Board actions taken under this section.

## Appendix H

### Grade Assignment and Grade Appeal Procedures

#### Introduction

The grade assignment and grade appeal procedures of California State University, Stanislaus are based upon the following premises:

1. An important duty of teaching faculty is the timely and accurate evaluation of student work and the assignment of an appropriate grade.
2. It is the responsibility of qualified faculty to assign a grade when the instructor of record does not do so.
3. By order of the Chancellor's Office, the Senate of CSUS is responsible for providing students a grade appeal procedure.
4. There is a presumption that grades assigned by faculty members are correct. Thus, the burden of proof rests with the individual who is appealing.
5. The following procedures are available only for review of alleged capricious grading and not for review of the judgment of an instructor in assessing the quality of a student's work. In absence of capricious grading, the grade determined by the instructor of record is final. Capricious grading, as that term is used herein, constitutes any of the following:
  - a. Instructor failure to notify students as to the basis of grade determination in a clear and timely manner.
  - b. The assignment of a grade by a substantial departure from the instructor's previously announced standards.
  - c. The assignment of a grade on some basis other than the student's performance in the course.
  - d. Discrimination or prejudice.
  - e. Error in calculating the grade.
  - f. Arbitrary grade assignment (failure of the instructor to demonstrate legitimate standards for grade assignment).

The grade appeal shall be dismissed by the Grade Appeal Committee if:

- The allegations would not constitute capricious grading.
  - The appeal was not timely, or
  - The student has not conferred with the instructor.
6. Students who can demonstrate a reasonable doubt about the correctness of an assigned grade deserve access to a due process hearing before an appropriate body and, when justified, deserve to receive a grade correction.

## Procedures

### Grade Assignment

1. Reporting Grades. At the end of each term instructors are required to submit grade reports to the Admissions and Records Office within 72 hours after each final examination period. The grades are recorded in writing and in a mark sense area on the Final Grade Report form. This form is prepared by computer printout and distributed to the faculty by the Registrar. A cover sheet is attached giving the procedures to follow in reporting grades and the specific due dates. The Final Grade Report requires the instructor's signature and the date. Reports are accepted only from the instructor, the department secretary, or other duly authorized department representatives.
2. If the instructor of record fails to assign a grade within 10 working days after grades are due, the department chair shall appoint two (2) appropriate faculty members and these three persons will jointly determine the grade. The department chair will be vested with the authority and required to inform the Registrar in writing to record the grade.
3. If the chair is the instructor of record, the appropriate School/College Dean or his/her designee shall assume the responsibility normally discharged by the chair.

### Change of Grade by the Instructor of Record

Grade changes are submitted to the Admissions and Records Office by the instructor on the Change of Grade Card. The appropriateness of the instructor's grade change is determined by the department chair whose signature is required on the Change of Grade Card, in addition to the instructor's signature. The Change of Grade Card is accepted only from the instructor, the department secretary, or other duly authorized department representative. There is no time limit imposed for such grade changes.

### Grade Appeal Policy and Procedures

1. If a student believes a grade assigned is incorrect, the student must file with the instructor a written statement of appeal within the first four weeks of the immediately following fall or spring semester. This appeal must detail and document the compelling reason(s) which form the basis for the student's contention that the assigned grade is incorrect. The instructor will respond in writing, within 15 working days on receipt of the appeal, indicating either approval or denial of the appeal. (If the appropriate School/College Dean or his/her designee judges that the instructor of record is inaccessible, the student may initiate the appeal with the department chair.)
2. In the event the instructor denies the appeal or fails to respond in writing, and the student wishes to pursue the matter further, the student shall submit the written appeal to the department chair with any further clarifications and/or contentions the student chooses to add to the original appeal. This action must be taken within 15 working days of the time the instructor informs the student of the denial. The department chair will, on receipt of the written appeal from the student, constitute a Grade Appeal Committee within 15 working days.
3. The Grade Appeal Committee shall be appointed by the chair in consultation with the student and instructor and consist of one faculty member from the involved department, one faculty member from outside the involved department, and the President of the Associated Students or his/her designee. The department chair shall, in consultation with the instructor and student, appoint the chair of the Grade Appeal Committee.
4. The duties of the Grade Appeal Committee shall be completed within 15 working days from the date constituted. This committee shall be provided all prior written correspondence from the student and instructor related to the grade appeal.
5. The Committee will review the written documents and take one of the following actions:
  - a. judge that the appeal has no merit and so inform the student and instructor in writing, in which case the matter is ended, or
  - b. judge that there is a reasonable doubt regarding the correctness of the grade and, in this event, initiate a hearing.
6. In the event a hearing is initiated, the Committee shall investigate and discuss the matter with the involved student and instructor. Both the student and instructor shall be entitled to be present throughout the hearing and to present evidence, including testimony by other persons. The student and instructor may be accompanied by a person from the University faculty or student body to assist them in presenting evidence. The hearing shall not be open to the public. At the close of the hearing, the Committee shall deliberate privately. The chair of the Grade Appeal Committee shall assure that the following procedures are employed in the conduct of the hearing:
  - a. Efforts may be made to resolve the matter by extra-procedural settlement at any time.
  - b. The student shall first make an opening statement by presenting evidence which the student believes constitutes legitimate grounds for the grade appeal.
  - c. After the student has presented his/her evidence, the Committee may agree to terminate the hearing, if the evidence presented does not constitute legitimate grounds for the grade appeal.



## Appendix I

### Privacy Rights of Students in Education Records

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) and *California Education Code* Section 67100 et seq., set out requirements designed to protect the privacy of students concerning their records maintained by the campus. Specifically, the statute and regulations govern access to student records maintained by the campus, and the release of such records. In brief, the law provides that the campus must provide students access to records directly related to the student and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading or otherwise inappropriate. The right to a hearing under the law does not include any right to challenge the appropriateness of a grade as determined by the instructor. The law generally requires that written consent of the student be received before releasing personally identifiable data about the student from records to other than a specified list of exceptions. The institution has adopted a set of policies and procedures concerning implementation of the statutes and the regulations on campus. Copies of these policies and procedures may be obtained at the Records Office or from the Vice Provost for Student Affairs. Among the types of information included in the campus statement of policies and procedures are: 1) the types of student records and the information contained therein; 2) the official responsible for the maintenance of each type of record; 3) the location of access lists which indicate persons requesting or receiving information from the record; 4) policies for reviewing and expunging records; 5) the access rights of students; 6) the procedures for challenging the content of student records; 7) the cost which will be charged for reproducing copies of records; and 8) the right of the student to file a complaint with the Department of Education. An office and review board have been established by the Department to investigate and adjudicate violations and complaints. The office designated for this purpose is: The Family Educational Rights and Privacy Act Office (FERPA), U.S. Department of Education, 330 "C" Street, Room 4511, Washington, D.C. 20202.

The campus is authorized under the Act to release "directory information" concerning students. "Directory information" includes the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. The above designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying information which the student requests not to be released. Written objections should be sent to the Vice Provost for Student Affairs.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons are those who have responsibilities in connection with the campus' academic, administrative or service functions and who have reason for using student records connected with their campus or other related academic responsibilities. Disclosure may also be made to other persons or organizations under certain conditions (e.g., as part of accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; to other institutions to which the student is transferring).

## Appendix J

### Institutional and Financial Assistance

The following information concerning student financial assistance may be obtained from the Director of Financial Aid/Scholarships, Library 110, (209) 667-3336.

1. student financial assistance programs available to students who enroll at CSU Stanislaus;
2. the methods by which such assistance is distributed among recipients who enroll at CSU Stanislaus;
3. the means, including forms, by which application for student financial assistance is made and requirements for accurately preparing such application;
4. the rights and responsibilities of students receiving financial assistance; and
5. the standards the student must maintain to be considered to be making satisfactory progress for the purpose of establishing and maintaining eligibility for financial assistance.

The following information concerning the cost of attending CSU Stanislaus is available from the Administrative Services Office, (209) 667-3241.

1. fees and tuition (where applicable);
2. estimated costs of books and supplies;
3. estimates of typical student room and board costs and typical commuting costs; and
4. any additional costs of the program in which the student is enrolled or expresses a specific interest.

Information concerning the refund policy of CSU Stanislaus for the return of unearned tuition and fees or other refundable portions of costs is available from the Administrative Services Office, (209) 667-3241.

Information concerning CSU Stanislaus policies regarding any refund due to the Federal Title IV student assistance programs as required by the regulations is available from the Administrative Services Office, (209) 667-3241.

Information concerning the academic programs of CSU Stanislaus may be obtained from the Associate Vice President for Academic Affairs, Library 175b, (209) 667-3082 and may include:

1. the current degree programs and other educational and training programs;
2. the instructional, laboratory, and other physical plant facilities which relate to the academic program;
3. the faculty and other instructional personnel;
4. data regarding student retention at CSU Stanislaus and, if available, the number and percentage of students completing the program in which the student is enrolled or expressed interest; and
5. the names of associations, agencies, or governmental bodies which accredit, approve, or license the institution and its programs, and the procedures under which any current or prospective student may obtain or review upon request a copy of the documents describing the institution's accreditation, approval, or licensing.

Information regarding special facilities and services available to handicapped students may be obtained from Counseling, Career Development and Academic Support Services, Student Services Building, Room 111, (209) 667-3381.

## Appendix K

### Sexual Harassment Policy and Procedures

#### Preamble

This policy provides a definition of sexual harassment. It specifies pre-disciplinary, pre-grievance procedures for report and resolving complaints of sexual harassment and recommends that an education program be initiated. Formal disciplinary and grievance procedures are already defined by existing policies, executive orders, codes, and collective bargaining contracts pertinent to University employees and students.\*

No individual shall be subject to reprisal for using this policy, nor shall its use preclude subsequent disciplinary or grievance measures. All units of campus community are expected to comply with this policy.

Except as needed in processing the complaint, both the Sexual Harassment Advisors and Sexual Harassment Officers are required to maintain confidentiality in dealing with sexual harassment complaints.

#### Definition of Sexual Harassment

Sexual Harassment is one person's use of University authority, rank, or position to distort a University relationship by conduct which emphasizes another person's sexuality. Sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature are forms of sexual harassment when the person with authority, rank, or position:

- a. Requires submission as an explicit or implicit condition of instruction, employment, or participation in any University activity; or
- b. Distorts academic or personnel evaluations based on response to such conduct; or
- c. Hinders performance by creating or allowing sexually intimidating, hostile, or offensive behavior to occur in the University or in a University-related setting.

Sexual harassment is unethical and unprofessional conduct, illegal, and against California State Stanislaus University policy. It may occur in written, spoken, physical, and visual forms.

The University will act to eliminate sexual harassment within its jurisdiction. A person with University authority, rank, or position must not use that power to create sexual pressure on someone else or on the workplace in general.

The University will evaluate each incident of alleged sexual harassment and apply appropriate remedies.

The University can dismiss employees or expel students for sexual harassment.

The University recognizes that any member of the campus community might be called upon to listen to a complaint of alleged sexual harassment. The listener should be objective and attentive, while discouraging use of names. No records should be kept, or should promises for specific action or final decisions be made. The listener should refer the complainant to a Sexual Harassment Advisor or to a University Sexual Harassment officer. Complainants may go to the Sexual Harassment officer without first consulting a Sexual Harassment Advisor and may request an investigation at any time.

#### Sexual Harassment Advisors (SHA)

All SHAs are volunteers. The Affirmative Action Officers shall arrange for a course for training of advisors. People who have successfully completed the course may serve as SHAs. Advisors will be available to serve as sources of initial information to any individual who has a complaint or who needs information about sexual harassment.

The names of the advisors shall be published at the beginning of each term. Advisors will have information about applicable laws, University policies and procedures, and options available for resolution of complaints. The advisors shall:

- a. Serve as resource persons to individuals with complaints or inquires which may involve sexual harassment;
- b. Advise the complainant regarding applicable University policies and procedures and outline various informal and formal options.
- c. Inform the appropriate sexual harassment officer if a complaint is received which is deemed sufficiently serious to warrant further action.

Discussion between complainants and Sexual Harassment Advisors shall occur without a written complaint and without identification of the person bringing the complaint and shall not imply guilt or innocence. No written record of specific complaints or actions taken to this point in the procedures shall be kept.

However, a simple tally of the number and type of complaints shall be kept and reported to the appropriate Sexual Harassment Officer at the end of each term.

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\* If the physical safety of any University individual is in question, the President will act immediately, within the authority of Title 5, Section 41301, the Education Code Sec. 22505 or the Penal Code Sec. 626.4 to protect the threatened party. Formal proceedings may be initiated immediately by the President in consultation with the Sexual Harassment Officer(s), and the appropriate grievance/disciplinary action officer.

If further action is requested by the complainant, the SHA shall refer the complainant to a Sexual Harassment Officer (SHO) and explain the responsibilities and duties of those officers. In addition, SHAs have an obligation to notify SHOs when it appears the University should act, even if the complainant has not requested further action. The SHA is not authorized to notify either the accused or any supervisor of the accused.

### Sexual Harassment Officers (SHO)

Sexual Harassment Officers are presidential designees and in that capacity are accountable directly to the President. The SHOs shall be the Director of Personnel or designee, California State University Affirmative Action Officer, and Director of Student Services. SHOs are empowered to hear and evaluate each complaint of alleged sexual harassment and to attempt resolution. SHOs shall observe basic standards of due process and confidentiality in all actions.

The Sexual Harassment Officer shall pursue complaints promptly through the stages outlined below.

Any discussion, investigation, or action taken under these procedures shall not conflict with student grievance procedures, regulations governing student affairs, collective bargaining contracts, and Executive Order 419.

### Pre-Formal Resolution of Complaints

The complainant may choose to enter into a pre-formal discussion or to request that the SHO conduct an investigation immediately. (See Item 2 following).

#### 1. Pre-Formal Discussion

Pre-formal discussion or resolution does not require a written complaint. Any SHO will hear complaints, determine the remedy sought, and review options for resolution. The review shall include a discussion of applicable University policies and procedures as well as external options for resolution. The SHO shall aid the complainant in identifying ways in which further harassment might be prevented. University policy requires that the Affirmative Action Office keep written records of all complaints. Such records need not identify complainant or alleged harasser by name nor shall they be part of any individual's official file at this stage of the procedure.

At the request of the complainant, the SHO may attempt to resolve the situation by taking some or all of the following steps:

- a. Informing the alleged harasser directly or through an appropriate administrator or supervisor that a problem has been raised concerning that person's conduct.
- b. Informing the alleged harasser of University policy regarding sexual harassment.
- c. Assisting the alleged harasser in identifying behaviors which might lead to complaints and ways in which that behavior might be changed to avoid further complaints.
- d. Recommending that an oral or written warning or reprimand be issued to the alleged harasser.

#### 2. Pre-Formal Investigation and Reporting

At the request of the complainant and upon receipt of a written and signed complaint, the appropriate SHO shall initiate an investigation. Investigation procedures may include meetings at which both the complainant and the alleged harasser are present.

At the conclusion of the investigation, if further action is deemed warranted by the appropriate SHO, a written report shall be submitted to the President. The report shall include a description of the facts, the remedy sought by the complainant, and recommendations for further action as deemed appropriate by the SHO. These recommendations shall be based upon the strength of evidence against the accused, the seriousness of action(s) that led to the complaint, and the remedy sought by the complainant. If formal disciplinary action is initiated, copies of the report shall be sent to the appropriate grievance/disciplinary action officer for faculty or staff or students, as well as to the complainant and the accused.

Upon receipt of the SHO's Report, the President or appropriate grievance/disciplinary action officer shall:

- a. Make every attempt to resolve the complaint to the satisfaction of both the complainant and the accused;
- b. Inform both parties of procedures available to them should either be dissatisfied with the resolution of the complaint.

If such a meeting(s) results in a settlement, the terms of the settlement shall be put in writing and be signed by the complainant, the alleged harasser, and the SHO.

If either party is dissatisfied with actions taken up to this point, redress may be pursued through existing complaint, grievance, or disciplinary procedures in student policies and regulations, collective bargaining contracts, and Executive Order 419.

### Sexual Harassment/Educational Program

A University Program should be offered which defines the nature of Sexual Harassment, its negative psychological effects, its destructive impact on productivity, and its potential costs in the event of litigation. The availability of such a program should be appropriately publicized within the University.

## Appendix L

### Learning Disabled Student G.E.-Breadth Requirement Waiver

The following is a policy for waiving the General Education-Breadth (G.E.B) requirement in the area of Mathematics for a student with a learning disability or neurological disorder. Students for whom the G.E.B. Mathematics requirement is waived are required instead to complete additional course work in the G.E.B. Area B.1. Physical Science, or other selected G.E.B. area.

1. The student will have taken the Entry Level Mathematics test (ELM) with accommodations, such as additional testing time.
2. The student will have completed the appropriate developmental math course(s) with accommodations in both testing and instruction methods.
3. The student must be registered with Disabled Student Services (DSS).
4. The student must have a documented learning disability which meets the established California State guidelines. The learning disability must be in areas that adversely affect the student's mathematical processing skills.
5. A student with a neurological disorder must be assessed by a qualified professional. The verification must specifically state that the disorder adversely affects the student's mathematical processing skills.
6. The student will submit a Petition for Waiver to the Coordinator of Disabled Student Services, and will attach a letter addressing the following:
  - a. Type of disability,
  - b. previous efforts made,
  - c. potential for success at the University,
  - d. support services utilized.
7. If a disability is identified, the Coordinator of the Disabled Student Services Program will address a request for waiver of the ELM requirement to the Associate Vice President for Academic Affairs, summarizing the evidence for the disability. The request may include the recommendation that the student substitute work in G.E.B. Area B.1. for the requirements in Area B.3. *A waiver under this procedure is available only for the mathematics requirement under General Education and Breadth; it does not apply to a mathematics course which is a support or major requirement.*
8. The Associate Vice President for Academic Affairs (or designee), in consultation with the Coordinator of Disabled Student Services, will decide whether the waiver is warranted. If the student wishes to appeal the decision, a request may be submitted to the Appeals Committee, which will review and approve or disapprove. The approved or disapproved request will be returned to the DSS Coordinator, who will notify the student. If the request is approved, the Associate Vice President for Academic Affairs will notify the Admissions and Records Office so satisfaction of the requirements under ELM and G.E.B. Area B.3. can be recorded.

## Appendix M

### Learning Disabled Student Course Substitutions in the Major, Minor, or Concentration

The following is a policy for course substitutions in a student's major, minor, concentration, or specified prerequisites, for a student with a learning disability or neurological disorder.

1. The student shall be registered with Disabled Student Services (DSS).
2. The student must have a documented learning disability which meets the established California State guidelines. The learning disability must be in areas that adversely affect the student's ability to meet specific course requirements.
3. A student with a neurological or physical disorder must be assessed by a qualified professional. The verification must specifically state that the disorder adversely affects processing or physical skills necessary in the required course.
4. A student who perceives a need to substitute a course in the student's degree program or prerequisites shall submit a Petition for Waiver. The student shall attach a letter addressing the following issues:
  - a. Type of disability,
  - b. previous efforts made,
  - c. potential for success in major,
  - d. utilization of support services.
5. The petition shall go to the appropriate department chairperson, who, in consultation with the Coordinator of Disabled Student Services, shall make a decision on the appropriateness of the petition. If approved, the department shall notify the Admissions and Records Office in writing, with a copy to the Coordinator of Disabled Student Services.
6. The department's decision shall be considered final.
7. If a student decides to pursue a teaching credential or waiver program, he/she must realize that he/she will still be required to demonstrate proficiency on state-mandated tests (e.g., CBEST, NTE) and in course work in the waiver program, (e.g. MATH 1030 and 1040).

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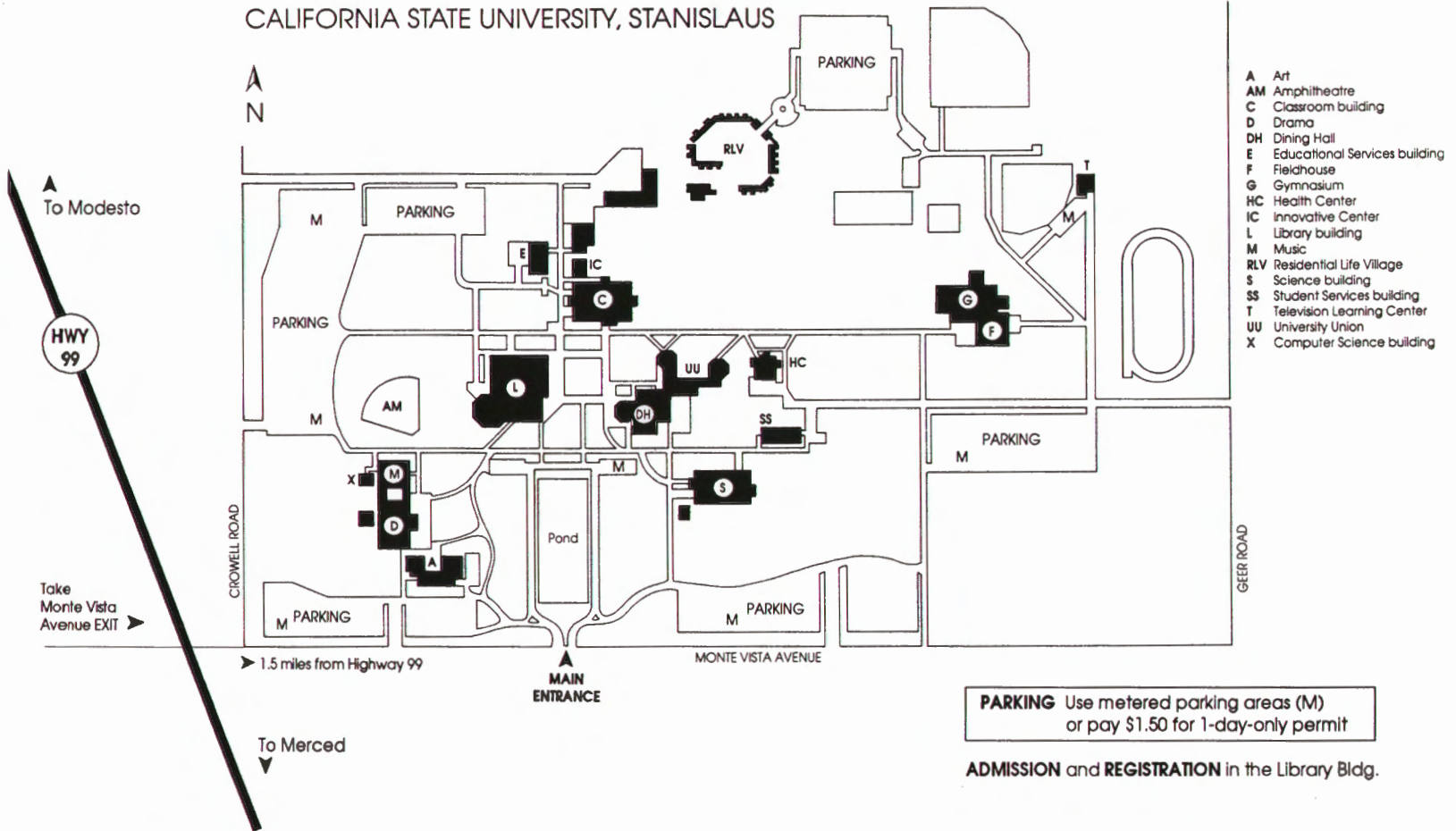
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